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TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

NEWS	1		Web Page for STN Seminar Schedule - N. America
NEWS	2	JAN 02	STN pricing information for 2008 now available
NEWS	3	JAN 16	CAS patent coverage enhanced to include exemplified prophetic substances
NEWS	4	JAN 28	USPATFULL, USPAT2, and USPATOLD enhanced with new custom IPC display formats
NEWS	5	JAN 28	MARPAT searching enhanced
NEWS	6	JAN 28	USGENE now provides USPTO sequence data within 3 days of publication
NEWS	7	JAN 28	TOXCENTER enhanced with reloaded MEDLINE segment
NEWS	8	JAN 28	MEDLINE and LMEEDLINE reloaded with enhancements
NEWS	9	FEB 08	STN Express, Version 8.3, now available
NEWS	10	FEB 20	PCI now available as a replacement to DPICI
NEWS	11	FEB 25	IFIREF reloaded with enhancements
NEWS	12	FEB 25	IMSPRODUCT reloaded with enhancements
NEWS	13	FEB 29	WPINDEX/WPIDS/WPIX enhanced with ECLA and current U.S. National Patent Classification
NEWS	14	MAR 31	IFICDB, IFIPAT, and IFIUDB enhanced with new custom IPC display formats
NEWS	15	MAR 31	CAS REGISTRY enhanced with additional experimental spectra
NEWS	16	MAR 31	CA/CAPLUS and CASREACT patent number format for U.S. applications updated
NEWS	17	MAR 31	LPICI now available as a replacement to LDPCI
NEWS	18	MAR 31	EMBASE, EMBAL, and LEMBASE reloaded with enhancements
NEWS	19	APR 04	STN AnaVist, Version 1, to be discontinued
NEWS	20	APR 15	WPIDS, WPINDEX, and WPIX enhanced with new predefined hit display formats
NEWS	21	APR 28	EMBASE Controlled Term thesaurus enhanced
NEWS	22	APR 28	IMSRSEARCH reloaded with enhancements
NEWS EXPRESS	FEBRUARY 08 CURRENT WINDOWS VERSION IS V8.3, AND CURRENT DISCOVER FILE IS DATED 20 FEBRUARY 2008		
NEWS HOURS	STN Operating Hours Plus Help Desk Availability		
NEWS LOGIN	Welcome Banner and News Items		
NEWS IPC8	For general information regarding STN implementation of IPC 8		

Enter NEWS followed by the item number or name to see news on that specific topic.

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***** STN Columbus *****

FILE 'HOME' ENTERED AT 09:43:22 ON 08 MAY 2008

=>

Uploading

THIS COMMAND NOT AVAILABLE IN THE CURRENT FILE

Do you want to switch to the Registry File?

Choice (Y/n):

Switching to the Registry File...

Some commands only work in certain files. For example, the EXPAND command can only be used to look at the index in a file which has an index. Enter "HELP COMMANDS" at an arrow prompt (=>) for a list of commands which can be used in this file.

=> FILE REGISTRY

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 09:43:41 ON 08 MAY 2008

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 7 MAY 2008 HIGHEST RN 1019993-29-3
DICTIONARY FILE UPDATES: 7 MAY 2008 HIGHEST RN 1019993-29-3

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 9, 2008.

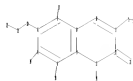
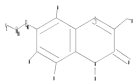
Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stdoc/properties.html>

=>

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```

chain nodes :
14 15 16 17 18 19 20 21 22 27
ring nodes :
4 5 6 7 8 9 10 11 12 13
chain bonds :
4-18 5-19 6-20 7-17 11-15 12-27 13-14 15-16 20-21 21-22
ring bonds :
4-5 4-9 5-6 6-7 7-8 8-9 8-10 9-13 10-11 11-12 12-13
exact/norm bonds :
4-18 5-19 6-20 7-17 8-10 9-13 10-11 11-12 11-15 12-13 12-27 13-14 15-16
20-21 21-22
normalized bonds :
4-5 4-9 5-6 6-7 7-8 8-9

```

G1:C,N

G2:C,O,N

G3

```

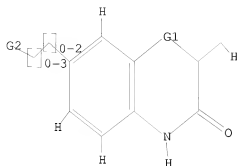
Match level :
4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:CLASS 12:Atom 13:Atom
14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:CLASS 20:CLASS 21:CLASS
22:CLASS 27:CLASS

```

L1 STRUCTURE UPLOADED

=> D L1

L1 HAS NO ANSWERS
L1 STR



G1 C,N
G2 C,O,N

Structure attributes must be viewed using STN Express query preparation.

=> S L1

SAMPLE SEARCH INITIATED 09:44:00 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 11058 TO ITERATE

18.1% PROCESSED 2000 ITERATIONS 50 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 214858 TO 227462
PROJECTED ANSWERS: 9440 TO 12232

L2 50 SEA SSS SAM L1

=> S L1 SSS FULL

FULL SEARCH INITIATED 09:44:08 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 220811 TO ITERATE

100.0% PROCESSED 220811 ITERATIONS 10264 ANSWERS
SEARCH TIME: 00.00.02

L3 10264 SEA SSS FUL L1

=> FILE CAPLU

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	178.82	179.03

FILE 'CAPLUS' ENTERED AT 09:44:37 ON 08 MAY 2008

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FILE LAST UPDATED: 7 May 2008 (20080507/ED)

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<http://www.cas.org/infopolicy.html>

=> S L3

L4 299 L3

=> D 1-5

L4 ANSWER 1 OF 299 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2008:237568 CAPLUS
DN 148:393737
TI Docking Study Yields Four Novel Inhibitors of the Protooncogene Pim-1 Kinase
AU Pierce, Albert C.; Jacobs, Marc; Stuver-Moody, Cameron
CS Vertex Pharmaceuticals, Incorporated, Cambridge, MA, 02139, USA
SO Journal of Medicinal Chemistry (2008), 51(6), 1972-1975
CODEN: JMCMAR; ISSN: 0022-2623
PB American Chemical Society
DT Journal
LA English

RE.CNT 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 299 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2008:194147 CAPLUS
DN 148:426840
TI Discovery of potent pteridine reductase inhibitors to guide antiparasite drug development
AU Cavazzuti, Antonio; Paglietti, Giuseppe; Hunter, William N.; Gamarro, Francisco; Piras, Sandra; Loriga, Mario; Alleca, Sergio; Corona, Paola; McLuskey, Karen; Tulloch, Lindsay; Gibellini, Federica; Ferrari, Stefania; Costi, Maria Paola
CS Dipartimento di Scienze Farmaceutiche, Università di Modena e Reggio Emilia, Modena, 41100, Italy
SO Proceedings of the National Academy of Sciences of the United States of America (2008), 105(5), 1448-1453
CODEN: PNASA6; ISSN: 0027-8424
PB National Academy of Sciences
DT Journal
LA English

RE.CNT 64 THERE ARE 64 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 299 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2007:1452342 CAPLUS
DN 148:158850
TI Comparative Molecular Field Analysis of quinoline derivatives as selective and noncompetitive mGluR1 antagonists
AU Sekhar, Y. Nataraja; Nayana, M. Ravi Shashi; Ravikumar, Muttineni; Mahmood, S. k.
CS Bioinformatics Division, Department of Environmental Microbiology, Osmania University, Hyderabad, India

SO Chemical Biology & Drug Design (2007), 70(6), 511-519
 CODEN: CBDDAL; ISSN: 1747-0277
 PB Blackwell Publishing Ltd.
 DT Journal
 LA English
 RE.CNT 30 THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 299 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2007:1411046 CAPLUS
 DN 148:214976
 TI Rearrangement of furo[2,3-c]quinoline-2,4(3aH,5H)-diones to
 furo[3,4-c]quinoline-3,4(1H,5H)-diones
 AU Kafka, Stanislav; Kosmrlj, Janez; Klasek, Antonin; Pevec, Andrej
 CS Faculty of Technology, Tomas Bata University in Zlin, Zlin, 762 72, Czech
 Rep.
 SO Tetrahedron Letters (2007), Volume Date 2008, 49(1), 90-93
 CODEN: TELEAY; ISSN: 0040-4039
 PB Elsevier Ltd.
 DT Journal
 LA English
 RE.CNT 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 5 OF 299 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2007:1391133 CAPLUS
 DN 148:191869
 TI Microwave-assisted one-pot synthesis of some new furo[2,3-b]quinolines
 using potassium carbonate under solvent-free conditions
 AU Raghavendra, M.; Naik, Halehatty S. Bhojya; Sherigara, Bailure S.
 CS Department of P G Studies and Research in Industrial Chemistry, School of
 Chemical Sciences, Kuvempu University, Karnataka, India
 SO Canadian Journal of Chemistry (2007), 85(12), 1041-1044
 CODEN: CJCHAG; ISSN: 0008-4042
 PB National Research Council of Canada
 DT Journal
 LA English
 RE.CNT 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> D 6-10

L4 ANSWER 6 OF 299 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2007:1364437 CAPLUS
 DN 148:33637
 TI Substituted quinolones as ATP-utilizing enzyme inhibitors and their
 preparation, compositions, and uses thereof
 IN Dickson, John K.; Chen, Ke; Hodge, Carl Nicholas
 PA Amphora Discovery Corporation, USA
 SO PCT Int. Appl., 143pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2007136592	A2	20071129	WO 2007-US11484	20070510
	WO 2007136592	A3	20080228		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM,			

KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG,
 MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT,
 RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR,
 TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW
 RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
 IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF,
 BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW,
 GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ,
 BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA

US 20070287706 A1 20071213 US 2007-803140 20070510
 PRAI US 2006-801881P P 20060518
 OS MARPAT 148:33637

L4 ANSWER 7 OF 299 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2007:1177863 CAPLUS
 DN 147:469247
 TI Preparation of quinolones derivatives useful as inducible nitric oxide
 synthase inhibitors
 IN Roppe, Jeffrey R.; Bonnefous, Celine; Smith, Nicholas D.; Lindstrom,
 Andrew K.; Noble, Stewart A.; Hassig, Christian A.; Payne, Joseph E.;
 Zhuang, Hui; Chen, Xiaohong; Duron, Sergio G.
 PA Kalypsys, Inc., USA
 SO PCT Int. Appl., 238pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2007117778	A2	20071018	WO 2007-US62769	20070223
	WO 2007117778	A3	20080207		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
	RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA			
PRAI	US 2006-776561P	P	20060224		
	US 2006-848696P	P	20061002		
OS	MARPAT 147:469247				

L4 ANSWER 8 OF 299 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2007:1089909 CAPLUS
 DN 147:406842
 TI Preparation of 1,2-dihydroquinolin-2-one, 1,2-dihydroquinoxalin-2-one, and
 1,2-dihydronaphthyridin-2-one derivatives for treating ocular hypertension
 IN Doherty, James B.; Shu, Min; Shen, Dong-Ming; Zhang, Fengqi
 PA Merck & Co., Inc., USA
 SO PCT Int. Appl., 92pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2007108968	A2	20070927	WO 2007-US6109	20070309

WO 2007108968 A3 20071129

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA

PRAI US 2006-781904P P 20060313
OS MARPAT 147:406842

L4 ANSWER 9 OF 299 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2007:969605 CAPLUS
DN 147:323004

TI Preparation of pyrimidine-2,4-diamines for inhibition of the JAK pathway
IN Argade, Ankush; Sran, Arvinder; Carroll, David; Clough, Jeffrey; Tso, Kin; Bhamidipati, Somasekhar; Thota, Sambaiah; Singh, Rajinder; Taylor, Vanessa; Li, Hui; Masuda, Esteban

PA Rigel Pharmaceuticals, Inc., USA

SO U.S. Pat. Appl. Publ., 106pp., Cont.-in-part of U.S. Ser. No. 450,901.
CODEN: USXXCO

DT Patent
LA English
FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 20070203161	A1	20070830	US 2007-678429	20070223
	US 20060293311	A1	20061228	US 2006-450901	20060608
PRAI	US 2006-776636P	P	20060224		
	US 2006-450901	A2	20060608		
	US 2006-871098P	P	20061220		
	US 2005-689032P	P	20050608		
	US 2005-706638P	P	20050808		
OS	MARPAT 147:323004				

L4 ANSWER 10 OF 299 CAPLUS COPYRIGHT 2008 ACS on SIN

AN 2007:874181 CAPLUS
DN 147:257784

TI Preparation of benzoxazines and related nitrogen-containing heterobicyclic compounds as mineralocorticoid receptor modulators.

IN Iijima, Toru; Yamamoto, Yasuo; Akatsuka, Hidenori; Kawaguchi, Takayuki

PA Tanabe Seiyaku Co., Ltd., Japan

SO PCT Int. Appl., 140pp.
CODEN: PIXXD2

DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2007089034	A1	20070809	WO 2007-JP52165	20070201
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ,
CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
KG, KZ, MD, RU, TJ, TM

PRAI JP 2006-25403 A 20060202
JP 2006-275917 A 20061010

OS MARPAT 147:257784

RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> D 11-15

L4 ANSWER 11 OF 299 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2007:854383 CAPLUS

DN 147:180202

TI High-conductance calcium-activated potassium channels: validated targets
for smooth muscle relaxants?

AU Garcia, Maria L.; Shen, Dong-Ming; Kaczorowski, Gregory J.

CS Department of Ion Channels, Merck Research Laboratories, Rahway, NJ,
07065, USA

SO Expert Opinion on Therapeutic Patents (2007), 17(7), 831-842

CODEN: EOTPEG; ISSN: 1354-3776

PB Informa Healthcare

DT Journal; General Review

LA English

RE.CNT 74 THERE ARE 74 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 12 OF 299 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2007:840337 CAPLUS

DN 147:406712

TI Synthesis of diastereomeric 2,4-disubstituted pyrano[2,3-b]quinolines from
3-formyl-2-quinolones through O-C bond formation via intramolecular
electrophilic cyclization

AU Singh, Mrityunjay K.; Chandra, Atish; Singh, Bhawana; Singh, Radhey M.

CS Department of Chemistry, Banaras Hindu University, Varanasi, 221 005,
India

SO Tetrahedron Letters (2007), 48(34), 5987-5990

CODEN: TELEAY; ISSN: 0040-4039

PB Elsevier Ltd.

DT Journal

LA English

OS CASREACT 147:406712

RE.CNT 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 13 OF 299 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2007:741976 CAPLUS

DN 147:291397

TI Nonnucleoside inhibitor of measles virus RNA-dependent RNA polymerase
complex activity

AU White, Laura K.; Yoon, Jeong-Joong; Lee, Jin K.; Sun, Aiming; Du, Yuhong;
Fu, Haian; Synder, James P.; Plemper, Richard K.

CS Department of Pediatrics, Emory University School of Medicine, Atlanta,
GA, 30322, USA

SO Antimicrobial Agents and Chemotherapy (2007), 51(7), 2293-2303

CODEN: AMACQ; ISSN: 0066-4804

PB American Society for Microbiology

DT Journal

LA English

RE.CNT 54 THERE ARE 54 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 14 OF 299 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2007:702537 CAPLUS
DN 147:110180
TI HDP (heme detoxification protein) involved in hemozoin formation in Plasmodium and Theileria as an anti-protozoal target, and high-throughput screening for antimalarial HDP inhibitors
IN Rathore, Dharmender; Jani, Dewal; Nagarkatti, Rana
PA USA
SO U.S. Pat. Appl. Publ., 123pp., Cont.-in-part of U.S. Ser. No. 249,355.
CODEN: USXXCO
DT Patent
LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 20070148185	A1	20070628	US 2006-549482	20061013
	US 20070087012	A1	20070419	US 2005-249355	20051014
PRAI	US 2005-249355	A2	20051014		

L4 ANSWER 15 OF 299 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2007:521015 CAPLUS
DN 147:30962
TI Preparation of 1,2-dihydroquinoline derivatives as inhibitors of epithelial growth factor receptor for treatment of tumor
IN Luo, Xiaomin; Li, Jian; Jiang, Huailiang; Shen, Xu; Liu, Hong; Shen, Jianhua; Zhu, Weiliang; Fu, Lili; Li, Lin; Mei, Changlin
PA Shanghai Institute of Materia Medica, Chinese Academy of Sciences, Peop. Rep. China
SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 19pp.
CODEN: CNXXEV

DT Patent
LA Chinese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	CN 1958572	A	20070509	CN 2005-10110045	20051104
PRAI	CN 2005-10110045		20051104		
OS	CASREACT 147:30962; MARPAT 147:30962				

=> D 16-20

L4 ANSWER 16 OF 299 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2007:427291 CAPLUS
DN 147:45189
TI High-throughput screening for small-molecule activators of neutrophils: identification of novel N-formyl peptide receptor agonists
AU Schepetkin, Igor A.; Kirpotina, Liliya N.; Khlebnikov, Andrei I.; Quinn, Mark T.
CS Department of Veterinary Molecular Biology, Montana State University, Bozeman, MT, USA
SO Molecular Pharmacology (2007), 71(4), 1061-1074
CODEN: MOPMA3; ISSN: 0026-895X
PB American Society for Pharmacology and Experimental Therapeutics
DT Journal
LA English

RE.CNT 39 THERE ARE 39 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 17 OF 299 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2007:128762 CAPLUS
 DN 146:350581
 TI Structure-Based Pharmacophore Identification of New Chemical Scaffolds as
 Non-Nucleoside Reverse Transcriptase Inhibitors
 AU Barreca, Maria Letizia; De Luca, Laura; Iraci, Nunzio; Rao, Angela; Ferro,
 Stefania; Maga, Giovanni; Chimirri, Alba
 CS Dipartimento Farmaco-Chimico, Universita di Messina, Messina, 98168, Italy
 SO Journal of Chemical Information and Modeling (2007), 47(2), 557-562
 CODEN: JCISD8; ISSN: 1549-9596
 PB American Chemical Society
 DT Journal
 LA English

RE.CNT 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 18 OF 299 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2007:126145 CAPLUS
 DN 146:379791
 TI Atropisomeric 3-(β -hydroxyethyl)-4-arylquinolin-2-ones as Maxi-K
 Potassium Channel Openers
 AU Vrudhula, Vivekananda M.; Dasgupta, Bireswar; Qian-Cutrone, Jingfang;
 Kozlowski, Edward S.; Boissard, Christopher G.; Dworetzky, Steven I.; Wu,
 Dedong; Gao, Qi; Kimura, Roy; Gribkoff, Valentin K.; Starrett, John E.,
 Jr.
 CS Bristol-Myers Squibb Pharmaceutical Research Institute, Wallingford, CT,
 06492, USA
 SO Journal of Medicinal Chemistry (2007), 50(5), 1050-1057
 CODEN: JMCMAR; ISSN: 0022-2623
 PB American Chemical Society
 DT Journal
 LA English
 OS CASREACT 146:379791

RE.CNT 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 19 OF 299 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2007:61837 CAPLUS
 DN 146:156236
 TI Cellular cholesterol absorption modifiers, and their therapeutic use
 IN Gardiner, Elisabeth M.; Duron, Sergio G.; Massari, Mark E.; Severance,
 Daniel L.; Semple, Joseph E.
 PA Kalypsys, Inc., USA
 SO PCT Int. Appl., 300pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2007008541	A2	20070118	WO 2006-US26242	20060705
	WO 2007008541	A3	20070726		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
	RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH,			

GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
 KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA

PRAI US 2005-697659P P 20050708
 US 2005-697686P P 20050708
 US 2005-697814P P 20050708
 US 2005-727646P P 20051017
 US 2006-782303P P 20060313

OS MARPAT 146:156236

L4 ANSWER 20 OF 299 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2007:53912 CAPLUS
 DN 146:151898
 TI Rewritable optical disks containing 1H-quinoxalin-2-one derivative
 IN Miyazato, Masataka; Shiozaki, Hiroyuki; Ishida, Tsutomu; Ogiso, Akira
 PA Mitsui Chemicals Inc., Japan
 SO Jpn. Kokai Tokkyo Koho, 47pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2007008045	A	20070118	JP 2005-192588	20050630
PRAI	JP 2005-192588		20050630		
OS	MARPAT 146:151898				

=> D 21-25

L4 ANSWER 21 OF 299 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2006:1338413 CAPLUS
 DN 146:81779
 TI Preparation of quinolinones and analogs for the treatment of multi-drug
 resistant bacterial infections
 IN Breault, Gloria; Eyermann, Charles Joseph; Geng, Bolin; Morningstar,
 Marshall; Reck, Folkert
 PA Astrazeneca AB, Swed.; Astrazeneca UK Limited
 SO PCT Int. Appl., 209pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2006134378	A1	20061221	WO 2006-GB2207	20060616
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	AU 2006258879	A1	20061221	AU 2006-258879	20060616
	CA 2610900	A1	20061221	CA 2006-2610900	20060616
	EP 1893599	A1	20080305	EP 2006-744233	20060616
	R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL,				

	BA, HR, MK, YU			
	IN 2007/DN09254	A	20080118	IN 2007-DN9254
	KR 2008021031	A	20080306	KR 2007-729378
	NO 2008000338	A	20080229	NO 2008-338
PRAI	US 2005-691340P	P	20050616	
	WO 2006-GB2207	W	20060616	

OS MARPAT 146:81779

RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 22 OF 299 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2006:1322867 CAPLUS

DN 146:229152

TI Trifluoroacetic acid: a more effective and efficient reagent for the synthesis of 3-arylmethylene-3,4-dihydro-1H-quinolin-2-ones and 3-arylmethyl-2-aminoquinolines from Baylis-Hillman derivatives via Claisen rearrangement

AU Pathak, Richa; Madapa, Sudharshan; Batra, Sanjay
CS Medicinal and Process Chemistry Division, Central Drug Research Institute, Uttar Pradesh, 226001, India

SO Tetrahedron (2006), Volume Date 2007, 63(2), 451-460

CODEN: TETRAB; ISSN: 0040-4020

PB Elsevier Ltd.

DT Journal

LA English

OS CASREACT 146:229152

RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 23 OF 299 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2006:1119240 CAPLUS

DN 147:235239

TI New syntheses of selenolo(2,3-b)quinoline-2-carboxylic ethyl esters

AU Nithyadevi, V.; Rajendran, S. P.

CS Department of Chemistry, Bharathiar University, India

SO Phosphorus, Sulfur and Silicon and the Related Elements (2006), 181(11), 2623-2634

CODEN: PSSLEC; ISSN: 1042-6507

PB Taylor & Francis, Inc.

DT Journal

LA English

RE.CNT 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 24 OF 299 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2006:1041251 CAPLUS

DN 145:369901

TI Protein aggregation inhibitors and protein aggregate depolymerizing compounds for the treatment of neurodegenerative conditions

IN Mandelkow, Eckhard; Mandelkow, Eva-Maria; Biernat, Jacek; Bergen, Martin Von; Pickhardt, Marcus

PA Max-Planck-Gesellschaft Zur Forderungder Wissenschaften, e.v., Germany

SO U.S. Pat. Appl. Publ., 71pp.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 20060223812	A1	20061005	US 2006-351884	20060210
	WO 2006007864	A1	20060126	WO 2004-EP8031	20040717
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,				

CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
 GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
 LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
 NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
 TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
 RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
 IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI,
 CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS,
 MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD,
 RU, TJ, TM

PRAI WO 2004-EP8031 A2 20040717
 US 2005-652284P P 20050211
 OS MARPAT 145:369901

L4 ANSWER 25 OF 299 CAPLUS COPYRIGHT 2008 ACS on SIN
 AN 2006:1010580 CAPLUS
 DN 145:377217
 TI Method for the preparation of phenyl-3-aminomethylquinol-2-one derivatives
 of as inhibitors of NO-synthase, their biologically activity and
 pharmaceutical composition based thereon
 IN Kirpichenok, M. A.; Genis, D. V.; Rodin, O. G.; Solov'ev, A. N.; Kochubei,
 V. S.; Fedotov, Y. A.; Afanas'ev, I. I.
 PA OOO "Asinehks Medkhim", Russia
 SO Russ., 34pp.
 CODEN: RUXXE7
 DT Patent
 LA Russian
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	RU 2284325	C2	20060927	RU 2003-136378	20031217
PRAI	RU 2003-136378		20031217		
OS	CASREACT 145:377217; MARPAT 145:377217				

=> D 26-30

L4 ANSWER 26 OF 299 CAPLUS COPYRIGHT 2008 ACS on SIN
 AN 2006:999877 CAPLUS
 DN 146:7921
 TI Synthetic studies of bioactive quinoxalinones: A facile approach to potent
 euglycemic and hypolipidemic agents
 AU Kamila, Sukanta; Biehl, Edward R.
 CS Southern Methodist University, Dallas, TX, USA
 SO Heterocycles (2006), 68(9), 1931-1939
 CODEN: HETCYAM; ISSN: 0385-5414
 PB Japan Institute of Heterocyclic Chemistry
 DT Journal
 LA English
 OS CASREACT 146:7921
 RE.CNT 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 27 OF 299 CAPLUS COPYRIGHT 2008 ACS on SIN
 AN 2006:992284 CAPLUS
 DN 146:194
 TI Design, synthesis and antitumor evaluation of a new series of
 N-substituted-thiourea derivatives
 AU Li, Jian; Tan, Jin-zhi; Chen, Li-li; Zhang, Jian; Shen, Xu; Mei,
 Chang-lin; Fu, Li-li; Lin, Li-ping; Ding, Jian; Xiong, Bing; Xiong,
 Xi-shan; Liu, Hong; Luo, Xiao-min; Jiang, Hua-liang
 CS Drug Discovery and Design Centre, State Key Laboratory of Drug Research,

Shanghai Institute of Materia Medica, Shanghai Institutes for Biological Sciences, Chinese Academy of Sciences, Shanghai, 201203, Peop. Rep. China
 SO Acta Pharmacologica Sinica (2006), 27(9), 1259-1271
 CODEN: APSCG5; ISSN: 1671-4083
 PB Blackwell Publishing Asia Pty Ltd.
 DT Journal
 LA English
 OS CASREACT 146:194
 RE.CNT 45 THERE ARE 45 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 28 OF 299 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2006:830334 CAPLUS
 DN 145:327681
 TI Pharmacophore-based virtual screening: The discovery of novel methionyl-tRNA synthetase inhibitors
 AU Kim, Su Yeon; Lee, Yeon-Sook; Kang, Taehee; Kim, Sunghoon; Lee, Jeewoo
 CS Laboratory of Medicinal Chemistry, Research Institute of Pharmaceutical Sciences, College of Pharmacy, Seoul National University, Seoul, 151-742, S. Korea
 SO Bioorganic & Medicinal Chemistry Letters (2006), 16(18), 4898-4907
 CODEN: BMCLE8; ISSN: 0960-894X
 PB Elsevier B.V.
 DT Journal
 LA English
 RE.CNT 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 29 OF 299 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2006:800127 CAPLUS
 DN 145:305641
 TI ComFA Study on quinolones as novel inhibitors of HIV-1 reverse transcriptase
 AU Yi, Ping; Qiu, Minghua
 CS Laboratory of Phytochemistry, Kunming Institute of Botany, The Chinese Academy of Science, Kunming, 650204, Peop. Rep. China
 SO Jisuanji Yu Yingyong Huaxue (2006), 23(5), 399-402
 CODEN: JYYHE6; ISSN: 1001-4160
 PB Jisuanji Yu Yingyong Huaxue Bianjibu
 DT Journal
 LA Chinese
 L4 ANSWER 30 OF 299 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2006:791062 CAPLUS
 DN 145:230880
 TI Preparation of novel ligands for the HisB10 Zn²⁺ sites of the R-state insulin hexamer and their use in pharmaceutical preparations comprising insulin
 IN Kaarsholm, Niels Christian; Birk Olsen, Helle; Madsen, Peter; Oestergaard, Soeren; Jakobsen, Palle; Moeller Tagmose, Tina
 PA Novo Nordisk A/S, Den.
 SO PCT Int. Appl., 424pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2006082245	A1	20060810	WO 2006-EP50675	20060206
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DU, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR,				

KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX,
 MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE,
 SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC,
 VN, YU, ZA, ZM, ZW
 RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
 IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ,
 CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH,
 GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
 KG, KZ, MD, RU, TJ, TM

PRAI EP 2005-100835 A 20050207

OS MARPAT 145:230880

RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> DD 24 IBIB ABS HITSTR

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L4 ANSWER 24 OF 299 CAPLUS COPYRIGHT 2008 ACS on SIN

ACCESSION NUMBER: 2006:1041251 CAPLUS

DOCUMENT NUMBER: 145:369901

TITLE: Protein aggregation inhibitors and protein aggregate
 depolymerizing compounds for the treatment of
 neurodegenerative conditions

INVENTOR(S): Mandelkow, Eckhard; Mandelkow, Eva-Maria; Biernat,
 Jacek; Bergen, Martin Von; Pickhardt, Marcus

PATENT ASSIGNEE(S): Max-Planck-Gesellschaft Zur Forderungder
 Wissenschaften, e.v., Germany

SOURCE: U.S. Pat. Appl. Publ., 71pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20060223812	A1	20061005	US 2006-351884	20060210
WO 2006007864	A1	20060126	WO 2004-EP8031	20040717
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				

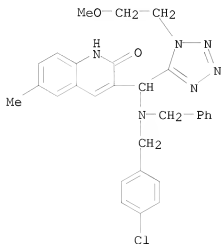
PRIORITY APPLN. INFO.: WO 2004-EP8031 A2 20040717

US 2005-652284P P 20050211

OTHER SOURCE(S): MARPAT 145:369901

AB The invention discloses the use of compds. capable of inhibiting protein
 aggregate formation and capable of depolymerizing protein aggregates for the
 preparation of a pharmaceutical composition for treating neurodegenerative
 conditions, e.g. Alzheimer's disease.

IT 523984-58-9
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
 (Biological study); USES (Uses)
 (protein aggregation inhibitors and protein aggregate depolymg. compds.
 for treatment of neurodegenerative conditions)
 RN 523984-58-9 CAPLUS
 CN 2-(1H)-Quinolinone, 3-[[[(4-chlorophenyl)methyl](phenylmethyl)amino][1-(2-
 methoxyethyl)-1H-tetrazol-5-yl)methyl]-6-methyl- (CA INDEX NAME)



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	ENTRY	SESSION
FULL ESTIMATED COST	52.31	231.34
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
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 DICTIONARY FILE UPDATES: 7 MAY 2008 HIGHEST RN 1019993-29-3

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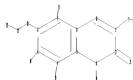
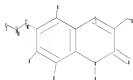
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chain nodes :
14 15 16 17 18 19 20 21 22 27
ring nodes :
4 5 6 7 8 9 10 11 12 13
chain bonds :
4-18 5-19 6-20 7-17 11-15 12-27 13-14 15-16 20-21 21-22
ring bonds :
4-5 4-9 5-6 6-7 7-8 8-9 8-10 9-13 10-11 11-12 12-13
exact/norm bonds :
4-18 5-19 6-20 7-17 8-10 9-13 10-11 11-12 11-15 12-13 12-27 13-14 15-16
20-21 21-22
normalized bonds :
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G1:C,N

G2:C,O,N

G3

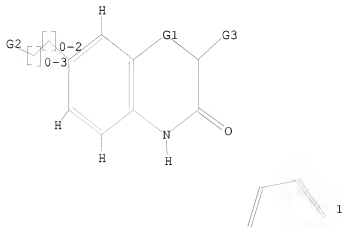
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4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:CLASS 12:Atom 13:Atom
14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:CLASS 20:CLASS 21:CLASS
22:CLASS 27:CLASS
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L5 STRUCTURE UPLOADED

=> D L5

L5 HAS NO ANSWERS

L5 STR



G1 C,N

G2 C,O,N

G3 Ak,Hy,[@1]

Structure attributes must be viewed using STN Express query preparation.

=> S L5

SAMPLE SEARCH INITIATED 09:57:56 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 50281 TO ITERATE

4.0% PROCESSED 2000 ITERATIONS 21 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **INCOMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 992237 TO 1019003
PROJECTED ANSWERS: 9181 TO 11937

L6 21 SEA SSS SAM L5

=> S L6 SSS FULL

FULL SEARCH INITIATED 09:58:22 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 1011346 TO ITERATE

98.9% PROCESSED 1000000 ITERATIONS 11355 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.09

FULL FILE PROJECTIONS: ONLINE **INCOMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 1011346 TO 1011346
PROJECTED ANSWERS: 11355 TO 11804

L7 11355 SEA SSS FUL L5

=> D L4 31-35

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	ENTRY	SESSION
FULL ESTIMATED COST	179.28	410.62
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-0.80

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=> D HIS

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FILE 'REGISTRY' ENTERED AT 09:43:41 ON 08 MAY 2008

L1 STRUCTURE UPLOADED
L2 50 S L1
L3 10264 S L1 SSS FULL

FILE 'CAPLUS' ENTERED AT 09:44:37 ON 08 MAY 2008

L4 299 S L3

FILE 'REGISTRY' ENTERED AT 09:57:37 ON 08 MAY 2008

L5 STRUCTURE UPLOADED
L6 21 S L5
L7 11355 S L6 SSS FULL

FILE 'CAPLUS' ENTERED AT 09:59:35 ON 08 MAY 2008

=> D L4 31-35

L4 ANSWER 31 OF 299 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2006:693843 CAPLUS

DN 145:188698
TI Design, synthesis, and biological evaluations of novel quinolones as HIV-1 non-nucleoside reverse transcriptase inhibitors
AU Ellis, David; Kuhen, Kelli L.; Anacleto, Beth; Wu, Baogen; Wolff, Karen; Yin, Hong; Bursulaya, Badry; Caldwell, Jeremy; Karanewsky, Donald; He, Yun
CS Genomics Institute of the Novartis Research Foundation (GNF), San Diego, CA, 92121, USA
SO Bioorganic & Medicinal Chemistry Letters (2006), 16(16), 4246-4251
CODEN: BMCLE8; ISSN: 0960-894X
PB Elsevier B.V.
DT Journal
LA English
OS CASREACT 145:188698
RE.CNT 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 32 OF 299 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2006:689592 CAPLUS
DN 145:271677
TI A convenient synthesis of 2-chlorobenzo[b][1,8]naphthyridines
AU Vandana, J. Christobel; Ragunath, L.; Rajendran, S. P.
CS Department of Chemistry, Bharathiar University, Coimbatore, 641 046, India
SO Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (2006), 45B(6), 1564-1566
CODEN: IJSBDB; ISSN: 0376-4699
PB National Institute of Science Communication and Information Resources
DT Journal
LA English
OS CASREACT 145:271677
RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 33 OF 299 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2006:672263 CAPLUS
DN 145:321978
TI A study of the analytical behaviour of selected synthetic and naturally occurring quinolines using electrospray ionization ion trap mass spectrometry, liquid chromatography and gas chromatography and the construction of an appropriate database for quinoline characterization
AU O'Donnell, F.; Ramachandran, V. N.; Smyth, W. F.; Hack, C. J.; Patton, E.
CS School of Biomedical Sciences, University of Ulster Coleraine, Coleraine, Co. Derry, BT52 1SA, UK
SO Analytica Chimica Acta (2006), 572(1), 63-76
CODEN: ACACAM; ISSN: 0003-2670
PB Elsevier B.V.
DT Journal
LA English
RE.CNT 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 34 OF 299 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2006:583007 CAPLUS
DN 145:210921
TI An efficient synthesis of benzo[b][1,8]naphthyridine-3-carboxylic methyl esters
AU Nithyadevi, V.; Rajendran, S. P.
CS Department of Chemistry, Bharathiar University, Coimbatore, 641046, India
SO Journal of Heterocyclic Chemistry (2006), 43(3), 755-758
CODEN: JHTCAD; ISSN: 0022-152X
PB HeteroCorporation
DT Journal
LA English

OS CASREACT 145:210921
RE.CNT 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 35 OF 299 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2006:207342 CAPLUS
DN 145:314438
TI Structural Elucidation Using 1H-NMR, 13C-NMR, and Mass Spectroscopic Study
of 3-(Ethoxy-hydroxy-methyl)-quinolin-2(1H)-one and 2-Benzoyloxy-3-
formylquinoline
AU Dhanabal, T.; Suresh, T.; Mohan, P.
CS Department of Chemistry, Bharathiar University, Tamil Nadu, 641 046, India
SO Spectroscopy Letters (2006), 39(2), 117-126
CODEN: SPLEBX; ISSN: 0038-7010
PB Taylor & Francis, Inc.
DT Journal
LA English
OS CASREACT 145:314438
RE.CNT 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> D L4 36-40

L4 ANSWER 36 OF 299 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2006:77226 CAPLUS
DN 144:171019
TI Preparation of quinoxalinones as estrogen receptor ligands for treating
various diseases
IN Mahaney, Paige Erin; Webb, Michael Byron; Ye, Fei; Sabatucci, Joseph Peter
PA Wyeth, USA
SO U.S. Pat. Appl. Publ., 21 pp.
CODEN: USXXCO
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 20060019961	A1	20060126	US 2005-147489	20050608
	US 7351709	B2	20080401		
PRAI	US 2004-578179P	P	20040609		

OS MARPAT 144:171019
RE.CNT 44 THERE ARE 44 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 37 OF 299 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2006:77202 CAPLUS
DN 144:170990
TI Preparation of benzimidazole derivatives as gonadotropin releasing hormone
receptor antagonists
IN Garrick, Lloyd M.; Hauze, Diane B.; Kees, Kenneth L.; Lundquist Iv,
Joseph, T.; Mann, Charles, W.; Mehlmann, John, F.; Pelletier, Jeffrey, C.;
Rogers, John, F., Jr.; Wrobel, Jay, E.
PA Wyeth, John, and Brother Ltd., USA; Green, Daniel M.
SO PCT Int. Appl., 149 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2006009734	A1	20060126	WO 2005-US21124	20050616

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

AU 2005264996 A1 20060126 AU 2005-264996 20050616
CA 2570968 A1 20060126 CA 2005-2570968 20050616
US 20060019965 A1 20060126 US 2005-154795 20050616
EP 1758895 A1 20070307 EP 2005-762686 20050616

R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, LV

CN 101006078 A 20070725 CN 2005-80027480 20050616
JP 2008503469 T 20080207 JP 2007-516680 20050616
BR 2005012261 A 20080226 BR 2005-12261 20050616
IN 2006KN03565 A 20070615 IN 2006-KN3565 20061128
KR 2007027584 A 20070309 KR 2006-726441 20061215
MX 2006PA14798 A 20070622 MX 2006-PA14798 20061215
NO 2007000294 A 20070228 NO 2007-294 20070116

PRAI US 2004-580640P P 20040617
WO 2005-US21124 W 20050616

OS MARPAT 144:170990

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 38 OF 299 CAPLUS COPYRIGHT 2008 ACS on SIN
AN 2006:74852 CAPLUS
DN 144:164276
TI Treating neurodegenerative conditions
IN Mandelkow, Eckard; Mandelkow, Eva-Maria; Biernat, Jacek; Bergen, Martin V.; Pickhardt, Markus
PA Max Planck Gesellschaft zur Foerderung der Wissenschaft, Germany
SO PCT Int. Appl., 136 pp.
CODEN: P1XXD2
DT Patent
LA English
FAN.CNT 2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006007864	A1	20060126	WO 2004-EP8031	20040717
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
US 20060223812	A1	20061005	US 2006-351884	20060210
PRAI US 2004-EP8031	A2	20040717		
US 2005-652284P	P	20050211		

OS MARPAT 144:164276

RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 39 OF 299 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2006:54922 CAPLUS
 DN 144:150646
 TI Preparation of novel ligands with protamine extensions for the HisB10 Zn²⁺ sites of the R-state insulin hexamer and their use in pharmaceutical preparations comprising insulin
 IN Olsen, Helle Birk; Kaarsholm, Niels Christian; Madsen, Peter; Balschmidt, Per
 PA Novo Nordisk A/S, Den.
 SO PCT Int. Appl., 408 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2006005683	A1	20060119	WO 2005-EP53070	20050629
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
EP 1768694	A1	20070404	EP 2005-758689	20050629
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR				
JP 2008505866	T	20080228	JP 2007-519777	20050629
PRAI DK 2004-1091	A	20040709		
WO 2005-EP53070	W	20050629		

OS MARPAT 144:150646
 RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 40 OF 299 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2006:26228 CAPLUS
 DN 144:128863
 TI Derivatives of 3-aminomethylquinolone-2 as inhibitors of NO-synthetase and methods for their preparation and biologically active compounds and pharmaceutical composition based thereon
 IN Kirpichenok, M. A.; Genis, D. V.; Rodin, O. G.; Solov'ev, A. N.; Kochubei, V. S.; Saekov, V. N.
 PA Obshchestvo s Ogranichennoi Otvetstvennost'yu "Asineks Medkhim", Russia
 SO Russ., 23 pp.
 CODEN: RUXXE7
 DT Patent
 LA Russian
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI RU 2267485	C2	20060110	RU 2003-129723	20031007
WO 2006054912	A1	20060526	WO 2004-RU457	20041118
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,				

LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
 NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
 TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
 RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
 IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG,
 CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE,
 LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ,
 MD, RU, TJ, TM

PRAI RU 2003-129723 A 20031007

=> FILE REG

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	ENTRY	SESSION
FULL ESTIMATED COST	15.46	426.08
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-0.80

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 DICTIONARY FILE UPDATES: 7 MAY 2008 HIGHEST RN 1019993-29-3

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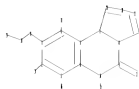
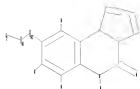
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<http://www.cas.org/support/stngen/stdoc/properties.html>

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```

chain nodes :
11 13 14 15 16 17 18 19
ring nodes :
1 2 3 4 5 6 7 8 9 10 26 27 28 29
chain bonds :
1-16 2-15 3-14 4-17 9-13 10-11 14-18 18-19
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 7-29 8-9 8-26 9-10 26-27 27-28
28-29
exact/norm bonds :
5-7 6-10 7-8 7-29 8-9 8-26 9-10 9-13 18-19 26-27 27-28 28-29
exact bonds :
1-16 2-15 3-14 4-17 10-11 14-18
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6

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G1:C,N

G2:C,O,N

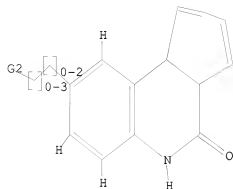
G3:Ak

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Match level :
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11:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:CLASS
26:Atom 27:Atom 28:Atom 29:Atom

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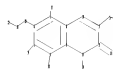
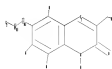
=> D L8
 L8 HAS NO ANSWERS
 L8 STR



G1 C,N
 G2 C,O,N
 G3 Ak

Structure attributes must be viewed using STN Express query preparation.

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chain nodes :
 14 15 16 17 18 19 20 21 22 27
 ring nodes :
 4 5 6 7 8 9 10 11 12 13

```

chain bonds :
4-18  5-19  6-20  7-17  11-15  12-27  13-14  15-16  20-21  21-22
ring bonds :
4-5   4-9   5-6   6-7   7-8   8-9   8-10  9-13  10-11  11-12  12-13
exact/norm bonds :
4-18  5-19  6-20  7-17  8-10  9-13  10-11  11-12  11-15  12-13  12-27  13-14  15-16
20-21  21-22
normalized bonds :
4-5   4-9   5-6   6-7   7-8   8-9

```

G1:C,N

G2:C,O,N

G3

Match level :

```

4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:CLASS 12:Atom 13:Atom
14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:CLASS 20:CLASS 21:CLASS
22:CLASS 27:CLASS

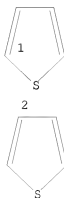
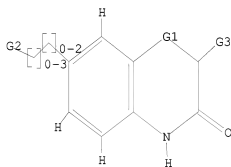
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L9 STRUCTURE UPLOADED

=> D L9

L9 HAS NO ANSWERS

L9 STR



G1 C,N

G2 C,O,N

G3 Ak,[@1],[@2]

Structure attributes must be viewed using STN Express query preparation.

=> S L8

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SAMPLE SCREEN SEARCH COMPLETED - 10615 TO ITERATE

18.8% PROCESSED 2000 ITERATIONS
 INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
 SEARCH TIME: 00.00.01

0 ANSWERS

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 206126 TO 218474
PROJECTED ANSWERS: 0 TO 0

L10 0 SEA SSS SAM L8

=> S L8 SSS FULL
FULL SEARCH INITIATED 10:04:55 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 213246 TO ITERATE

100.0% PROCESSED 213246 ITERATIONS 105 ANSWERS
SEARCH TIME: 00.00.01

L11 105 SEA SSS FUL L8

=> S L9
SAMPLE SEARCH INITIATED 10:05:03 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 50281 TO ITERATE

4.0% PROCESSED 2000 ITERATIONS 21 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **INCOMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 992237 TO 1019003
PROJECTED ANSWERS: 9181 TO 11937

L12 21 SEA SSS SAM L9

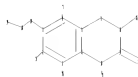
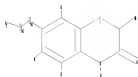
=> S L9 SSS FULL
FULL SEARCH INITIATED 10:05:09 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 1011346 TO ITERATE

98.9% PROCESSED 1000000 ITERATIONS 10576 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.10

FULL FILE PROJECTIONS: ONLINE **INCOMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 1011346 TO 1011346
PROJECTED ANSWERS: 10576 TO 11005

L13 10576 SEA SSS FUL L9

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11 13 14 15 16 17 18 19 26
ring nodes :
1 2 3 4 5 6 7 8 9 10
chain bonds :
1-16 2-15 3-14 4-17 8-26 9-13 10-11 14-18 18-19
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 9-10
exact/norm bonds :
1-16 2-15 3-14 4-17 5-7 6-10 7-8 8-9 8-26 9-10 9-13 10-11 14-18 18-19
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6
isolated ring systems :
containing 1 :

```

G1:C,N

G2:C,O,N

G3

```

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:CLASS
26:CLASS

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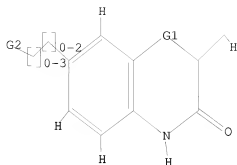
L14 STRUCTURE UPLOADED

=> D L14

L14 HAS NO ANSWERS

L14

STR



G1 C,N

G2 C,O,N

G3

Structure attributes must be viewed using STN Express query preparation.

=> S L14

SAMPLE SEARCH INITIATED 10:08:59 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 11058 TO ITERATE

18.1% PROCESSED 2000 ITERATIONS

50 ANSWERS

INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 214858 TO 227462

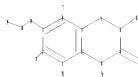
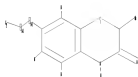
PROJECTED ANSWERS: 9337 TO 12115

L15

50 SEA SSS SAM L14

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```

chain nodes :
11 13 14 15 16 17 18 19 26
ring nodes :
1 2 3 4 5 6 7 8 9 10
chain bonds :
1-16 2-15 3-14 4-17 8-26 9-13 10-11 14-18 18-19
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 9-10
exact/norm bonds :
1-16 2-15 3-14 4-17 5-7 6-10 7-8 8-9 8-26 9-10 9-13 10-11 14-18 18-19
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6
isolated ring systems :
containing 1 :

```

G1:C,N

G2:C,O,N

G3

```

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:CLASS
26:CLASS

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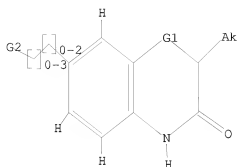
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=> D L16

L16 HAS NO ANSWERS

L16

STR



G1 C,N

G2 C,O,N

G3

Structure attributes must be viewed using STN Express query preparation.

=> S L16

SAMPLE SEARCH INITIATED 10:10:41 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 50281 TO ITERATE

4.0% PROCESSED 2000 ITERATIONS

21 ANSWERS

INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **INCOMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 992237 TO 1019003

PROJECTED ANSWERS: 9181 TO 11937

L17

21 SEA SSS SAM L16

=> S L16 SSS FULL

FULL SEARCH INITIATED 10:11:12 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 1011346 TO ITERATE

98.9% PROCESSED 1000000 ITERATIONS

10559 ANSWERS

INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)

SEARCH TIME: 00.00.09

FULL FILE PROJECTIONS: ONLINE **INCOMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 1011346 TO 1011346

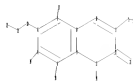
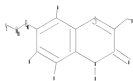
PROJECTED ANSWERS: 10559 TO 10987

L18

10559 SEA SSS FUL L16

=>

Uploading C:\Program Files\Stnexp\Queries\10596086.str



```

chain nodes :
14 15 16 17 18 19 20 21 22 27
ring nodes :
4 5 6 7 8 9 10 11 12 13
chain bonds :
4-18 5-19 6-20 7-17 11-15 12-27 13-14 15-16 20-21 21-22
ring bonds :
4-5 4-9 5-6 6-7 7-8 8-9 8-10 9-13 10-11 11-12 12-13
exact/norm bonds :
4-18 5-19 6-20 7-17 8-10 9-13 10-11 11-12 11-15 12-13 12-27 13-14 15-16
20-21 21-22
normalized bonds :
4-5 4-9 5-6 6-7 7-8 8-9

```

G1:C,N

G2:C,O,N

G3

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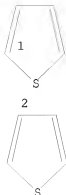
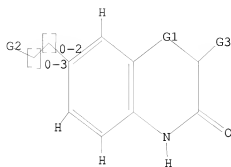
Match level :
4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:CLASS 12:Atom 13:Atom
14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:CLASS 20:CLASS 21:CLASS
22:CLASS 27:CLASS

```

L19 STRUCTURE UPLOADED

=> D L19

L19 HAS NO ANSWERS
L19 STR



G1 C,N
G2 C,O,N
G3 [#1],[#2]

Structure attributes must be viewed using STN Express query preparation.

```
=> S L19
SAMPLE SEARCH INITIATED 10:12:58 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -      88 TO ITERATE

100.0% PROCESSED      88 ITERATIONS      1 ANSWERS
SEARCH TIME: 00.00.01
```

```
FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:   1198 TO 2322
PROJECTED ANSWERS:      1 TO    80
```

L20 1 SEA SSS SAM L19

```
=> S L19 SSS FULL
FULL SEARCH INITIATED 10:13:06 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -    1728 TO ITERATE
```

```
100.0% PROCESSED    1728 ITERATIONS    12 ANSWERS
SEARCH TIME: 00.00.01
```

L21 12 SEA SSS FUL L19

=> D HIS

(FILE 'HOME' ENTERED AT 09:43:22 ON 08 MAY 2008)

FILE 'REGISTRY' ENTERED AT 09:43:41 ON 08 MAY 2008
STRUCTURE UPLOADED

```
L1
L2      50 S L1
L3     10264 S L1 SSS FULL
```

```
FILE 'CAPLUS' ENTERED AT 09:44:37 ON 08 MAY 2008
L4      299 S L3
```

FILE 'REGISTRY' ENTERED AT 09:57:37 ON 08 MAY 2008
L5 STRUCTURE UPLOADED
L6 21 S L5
L7 11355 S L6 SSS FULL

FILE 'CAPLUS' ENTERED AT 09:59:35 ON 08 MAY 2008

FILE 'REGISTRY' ENTERED AT 10:04:01 ON 08 MAY 2008
L8 STRUCTURE UPLOADED
L9 STRUCTURE UPLOADED
L10 0 S L8
L11 105 S L8 SSS FULL
L12 21 S L9
L13 10576 S L9 SSS FULL
L14 STRUCTURE UPLOADED
L15 50 S L14
L16 STRUCTURE UPLOADED
L17 21 S L16
L18 10559 S L16 SSS FULL
L19 STRUCTURE UPLOADED
L20 1 S L19
L21 12 S L19 SSS FULL

=> S L21 OR L18 OR L11
L22 10676 L21 OR L18 OR L11

=> FILE CAPLUS
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
718.96	1145.04

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
0.00	-0.80

CA SUBSCRIBER PRICE

FILE 'CAPLUS' ENTERED AT 10:13:35 ON 08 MAY 2008
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PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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FILE LAST UPDATED: 7 May 2008 (20080507/ED)

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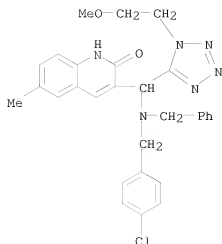
<http://www.cas.org/infopolicy.html>

=> S L22
L23 551 L22

=> D L4 38 IBIB ABS HITSTR

L4 ANSWER 38 OF 299 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2006:74852 CAPLUS
DOCUMENT NUMBER: 144:164276
TITLE: Treating neurodegenerative conditions
INVENTOR(S): Mandelkow, Eckard; Mandelkow, Eva-Maria; Biernat,
Jacek; Bergen, Martin V.; Pickhardt, Markus
PATENT ASSIGNEE(S): Max Planck Gesellschaft zur Foerderung der
Wissenschaft, Germany
SOURCE: PCT Int. Appl., 136 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006007864	A1	20060126	WO 2004-EP8031	20040717
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
US 20060223812	A1	20061005	US 2006-351884	20060210
PRIORITY APPLN. INFO.:			WO 2004-EP8031	A2 20040717
			US 2005-652284P	P 20050211
OTHER SOURCE(S):	MARPAT 144:164276			
AB	The present invention relates to the use of compds. capable of inhibiting protein aggregate formation and capable of depolyng. protein aggregates for the preparation of a pharmaceutical composition for treating neurodegenerative conditions such as Alzheimer disease.			
IT 523984-58-9	RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (compds. to treat neurodegenerative conditions)			
RN 523984-58-9	CAPLUS			
CN 2(1H)-Quinolinone, 3-[[[(4-chlorophenyl)methyl](phenylmethyl)amino][1-(2-methoxyethyl)-1H-tetrazol-5-yl)methyl]-6-methyl-	(CA INDEX NAME)			



REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> D L4 41-45

L4 ANSWER 41 OF 299 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2005:1273698 CAPLUS
 DN 144:254021
 TI Synthesis, characterization and antimicrobial activities of fused 1,6-naphthyridines
 AU Suresh, T.; Dhanabal, T.; Kumar, R. Nandha; Mohan, P. S.
 CS Department of Chemistry, Bharathiar University, Coimbatore, 641 046, India
 SO Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (2005), 44B(11), 2375-2379
 CODEN: IJSBDB; ISSN: 0376-4699
 PB National Institute of Science Communication and Information Resources
 DT Journal
 LA English
 OS CASREACT 144:254021
 RE.CNT 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 42 OF 299 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2005:1225850 CAPLUS
 DN 144:88253
 TI Synthesis of substituted 1,3-dimethyl-1H-quinoxalin-2-ones from aniline derivatives
 AU Li, Xun; Wang, Donghua; Wu, Jifeng; Xu, Wenfang
 CS College of Pharmacy, Shandong University, Jinan, 250012, Peop. Rep. China
 SO Heterocycles (2005), 65(11), 2741-2751
 CODEN: HTCYAM; ISSN: 0385-5414
 PB Japan Institute of Heterocyclic Chemistry
 DT Journal
 LA English
 OS CASREACT 144:88253
 RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 43 OF 299 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2005:1077191 CAPLUS
 DN 143:379513

TI Effect of 4-(5-chloro-2-hydroxyphenyl)-3-(2-hydroxyethyl)-6-(trifluoromethyl)-quinolin-2(1H)-one (BMS-223131), a novel opener of large conductance Ca²⁺-activated K⁺ (maxi-K) channels on normal and stress-aggravated colonic motility and visceral nociception. [Erratum to document cited in CA143:071440]

AU Sivarao, Digavalli V.; Newberry, Kimberly; Langdon, Shaun; Lee, Alicia V.; Hewawasam, Plyasena; Plym, Mary Jane; Signor, Laura; Myers, Robert; Lodge, Nicholas J.

CS Neuroscience Drug Discovery, Pharmaceutical Research Institute, Bristol Myers Squibb Co., Wallingford, CT, USA

SO Journal of Pharmacology and Experimental Therapeutics (2005), 315(1), 476
CODEN: JPETAB; ISSN: 0022-3565

PB American Society for Pharmacology and Experimental Therapeutics

DT Journal

LA English

L4 ANSWER 44 OF 299 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2005:1011081 CAPLUS

DN 143:440373

TI Reaction of some furan-2,3-diones with various 1,2-phenylenediamines

AU Saripinar, Emin; Saglam, Ertugrul Gazi; Oncel, Ibrahim; Ilhan, Ilhan Ozer; Goktas, Lale; Kok, Tevfik Riza; Akcamur, Yunus

CS Department of Chemistry, Arts and Sciences Faculty, Erciyes University, Kayseri, 38039, Turk.

SO Heterocycles (2005), 65(9), 2161-2167
CODEN: HICYAM; ISSN: 0385-5414

PB Japan Institute of Heterocyclic Chemistry

DT Journal

LA English

OS CASREACT 143:440373

RE.CNT 42 THERE ARE 42 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 45 OF 299 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2005:1010091 CAPLUS

DN 144:467988

TI Schiff Bases Derived from 6-Amino-2H-chromen-2-one. Synthesis and 1H NMR Spectra

AU Ganushchak, N. I.; Kobrin, L. O.; Bilaya, E. E.; Mizyuk, V. L.

CS Ivan Franko Lviv National University, Lvov, 79005, Ukraine

SO Russian Journal of Organic Chemistry (2005), 41(7), 1064-1070
CODEN: RJOCEQ; ISSN: 1070-4280

PB Pleiades Publishing, Inc.

DT Journal

LA English

OS CASREACT 144:467988

RE.CNT 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> D L4 46-50

L4 ANSWER 46 OF 299 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2005:1007164 CAPLUS

DN 143:440372

TI Novel approach to 3-methyl-1H-quinoxalin-2-ones

AU Li, Xun; Wang, Donghua; Wu, Jifeng; Xu, Wenfang

CS School of Pharmacy, Shandong University, Ji'nan, Peop. Rep. China

SO Synthetic Communications (2005), 35(19), 2553-2560
CODEN: SYNCAV; ISSN: 0039-7911

PB Taylor & Francis, Inc.

DT Journal

LA English
 OS CASREACT 143:440372
 RE.CNT 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 47 OF 299 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2005:921427 CAPLUS
 DN 143:241376
 TI Analogs of a potent maxi-K potassium channel opener with an improved inhibitory profile toward cytochrome P450 isozymes
 AU Vrudhula, Vivekananda M.; Dasgupta, Bireswar; Boissard, Christopher G.; Griboff, Valentin K.; Santone, Kenneth S.; Daltorio, Richard A.; Lodge, Nicholas J.; Starrett, John E.
 CS Bristol-Myers Squibb Pharmaceutical Research Institute, Wallingford, CT, 06492, USA
 SO Bioorganic & Medicinal Chemistry Letters (2005), 15(19), 4286-4290
 CODEN: BMCLE8; ISSN: 0960-894X
 PB Elsevier B.V.
 DT Journal
 LA English
 OS CASREACT 143:241376
 RE.CNT 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 48 OF 299 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2005:638875 CAPLUS
 DN 143:153404
 TI Preparation of N-substituted piperidine and piperazine derivatives dopamine D2 and serotonin 2A receptor antagonists
 IN Cho, Stephen Sung Yong; Gregory, Tracy Fay; Guzzo, Peter Robert; Howard, Harry Ralph, Jr.; Nikam, Sham Shridhar; Surman, Matthew David; Walters, Michael Anthony
 PA Warner-Lambert Company LLC., USA
 SO PCT Int. Appl., 144 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2005066165	A1	20050721	WO 2004-IB4239	20041220
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2551346	A1	20050721	CA 2004-2551346	20041220
EP 1701954	A1	20060920	EP 2004-806416	20041220
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, IS				
BR 2004018255	A	20070417	BR 2004-18255	20041220
JP 2007517014	T	20070628	JP 2006-546393	20041220
MX 2006PA07654	A	20060904	MX 2006-PA7654	20060630
PRAI US 2003-533761P	P	20031231		
WO 2004-IB4239	W	20041220		
OS MARPAT 143:153404				

RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

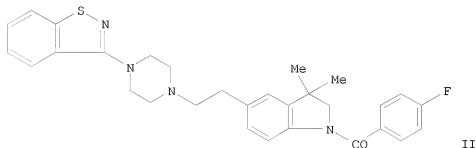
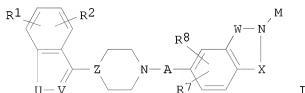
L4 ANSWER 49 OF 299 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2005:635973 CAPLUS
DN 143:286315
TI Synthesis of pyrrolo[3,4-c]quinolines by 1,5-electrocyclisation of
 non-stabilized azomethine ylides
AU Myerges, Miklos; Pinter, Aron; Viranyi, Andrea; Blasko, Gabor; Toke,
 Laszlo
CS Department of Organic Chemical Technology, Research Group of the Hungarian
 Academy of Sciences, Technical University of Budapest, Budapest, H-1521,
 Hung.
SO Tetrahedron (2005), 61(34), 8199-8205
 CODEN: TETRA; ISSN: 0040-4020
PB Elsevier B.V.
DT Journal
LA English
OS CASREACT 143:286315
RE.CNT 38 THERE ARE 38 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 50 OF 299 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2005:623965 CAPLUS
DN 144:412337
TI Synthesis of Selenolo(2,3-b)quinoline-2-carboxylic Ethyl Esters:
 Cytogenetic Studies on Human Peripheral Blood Leucocyte Cultures, and
 Anti-Bacterial Studies, and Anti-Fungal Studies of Their Effects
AU Nithyadevi, V.; Rajendran, S.
CS Department of Chemistry, Bharathiar University, Tamil Nadu, Coimbatore,
 India
SO Phosphorus, Sulfur and Silicon and the Related Elements (2005), 180(8),
 1849-1862
 CODEN: PSSLEC; ISSN: 1042-6507
PB Taylor & Francis, Inc.
DT Journal
LA English
OS CASREACT 144:412337
RE.CNT 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> D L4 48 IBIB ABS HITSTR

L4 ANSWER 48 OF 299 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2005:638875 CAPLUS
DOCUMENT NUMBER: 143:153404
TITLE: Preparation of N-substituted piperidine and piperazine
 derivatives dopamine D2 and serotonin 2A receptor
 antagonists
INVENTOR(S): Cho, Stephen Sung Yong; Gregory, Tracy Fay; Guzzo,
 Peter Robert; Howard, Harry Ralph, Jr.; Nikam, Sham
 Shridhar; Surman, Matthew David; Walters, Michael
 Anthony
PATENT ASSIGNEE(S): Warner-Lambert Company Llc., USA
SOURCE: PCT Int. Appl., 144 pp.
 CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

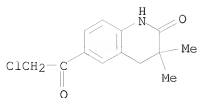
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005066165	A1	20050721	WO 2004-IB4239	20041220
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
CA 2551346	A1	20050721	CA 2004-2551346	20041220
EP 1701954	A1	20060920	EP 2004-806416	20041220
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, IS			
BR 2004018255	A	20070417	BR 2004-18255	20041220
JP 2007517014	T	20070628	JP 2006-546393	20041220
MX 2006PA07654	A	20060904	MX 2006-PA7654	20060630
PRIORITY APPLN. INFO.:			US 2003-533761P	P 20031231
			WO 2004-IB4239	W 20041220
OTHER SOURCE(S):	MARPAT 143:153404			
GI				



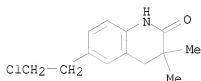
AB This invention relates to N-substituted piperidine and piperazine derivs. (shown as I; variables defined below; e.g. [5-[2-[4-(benzo[d]isothiazol-3-yl)piperazin-1-yl]ethyl]-3,3-dimethyl-2,3-dihydroindol-1-yl] (4-fluorophenyl)methanone (shown as II)), pharmaceutical compns. containing them and their use in the treatment of central nervous system and other disorders. Although the methods of preparation are not claimed, example preps. and/or characterization data for .apprx.160 I are included. For example, II was prepared in 98 % yield by coupling 3-[4-[2-(3,3-dimethyl-2,3-dihydro-1H-indol-5-yl)ethyl]piperazin-1-yl]benzo[d]isothiazole with 4-fluorobenzoyl chloride; the benzo[d]isothiazole reactant was prepared in 79 % yield by reduction of 5-[2-[4-(benzo[d]isothiazol-3-yl)piperazin-1-yl]ethyl]-3,3-dimethyl-1,3-dihydroindol-2-one, which was prepared in 96 % yield from 3-(piperazin-1-yl)benzo[d]isothiazole and 5-(2-chloroethyl)-3,3-dimethyl-1,3-dihydroindol-2-one, which was prepared in 45 % yield by reduction

of 5-(2-chloroethyl)-3,3-dimethyl-1,3-dihydroindol-2-one, which was prepared in >96 % yield from chloroacetyl chloride and 3,3-dimethyl-1,3-dihydroindol-2-one. For I: M = E-R9, L-T-R9, T-D-R9; U is S, O, SO, SO₂, CH₂ or NR₃; V is N or C; Z is N or C; A is -(CH₂)_mO-, -(CH₂)_mNR₄-, or -(CH₂)_mC(R₅R₆)-, wherein R₅ and R₆ = H, (Cl-C4) alkyl (un)substituted with 1-3 F atoms, (Cl-C4) alkoxy (un)substituted with 1-3 F atoms, hydroxy, and aminoalkyl; or R₅ and R₆ together form a carbonyl, and wherein m = 1-4. R1 and R2 = H, (Cl-C4) alkyl (un)substituted with 1-3 F atoms, (Cl-4) alkoxy (un)substituted with 1-3 F atoms, halogen, nitro, cyano, amino, (Cl-C4) alkylamino and di(Cl-C4) alkylamino; R3 and R4 = H, (Cl-C4) alkyl (un)substituted with 1-3 F atoms and (Cl-C4) alkoxy (un)substituted with 1-3 F atoms; or, when U is NR₃, one of R1 and R2 can form, together with the C to which it is attached, and together with R3 and the N to which it is attached, a heterocyclic ring containing 4-7 ring members of which 1-3 ring members can be N, O and S, and of which the remaining ring members are C, with the proviso that when R3 forms a ring with one of R1 and R2, the other of R1 and R2 is absent. X is -[C(R11)(R12)]o-, wherein R11 and R12 = H and (Cl-C4) alkyl (un)substituted with 1-3 F atoms, and wherein o = 0-3, with the proviso that when W is absent, o ≥ 2; W is -[C(R13)(R14)]p-, wherein R13 and R14 = H and (Cl-C4) alkyl (un)substituted with 1-3 F atoms, and wherein p = 0-4, with the proviso that when X is absent, p ≥ 2; R7 and R8 = halo, R1 and -OR1; or R7, when attached to a C adjacent to one of the C atoms shared by both the Ph ring to which R7 is attached and the ring containing W, N and X, forms, together with a C atom of X or a C atom of W, a saturated carbocyclic ring containing 3-6 C atoms. R9 = Ph, phenoxy, benzyloxy, and phenylamino, wherein the Ph moieties are (un)substituted with 1-3 halo, (Cl-C3) alkyl (un)substituted with 1-3 F atoms, (Cl-C3) alkoxy (un)substituted with 1-3 F atoms, nitro, cyano, amino, and (Cl-C3) alkylamino; or R9 is a pyrrolidine, piperidine or morpholine ring wherein the point of attachment to D, T or E is the ring N, and wherein said pyrrolidine, piperidine or morpholine ring can be (un)substituted with 1 or 2 Me, amino, (Cl-04) alkylamino, and di(Cl-C4) alkylamino; or R9 is a furan, thiophene, or pyrazole ring (un)substituted with 1-2 (Cl-C4) alkyl groups; or R9 is (Cl-C6) straight or branched alkyl or (C3-C6) cycloalkyl, wherein said straight, branched and cyclic alkyl moieties are be (un)substituted with 1-3 halo atoms or (Cl-C4) alkoxy (un)substituted with 1-3 F atoms; or R9 is halogen, nitro, cyano, amino, (Cl-C4) alkylamino, di(Cl-C4) alkylamino or OR1, wherein the alkyl moieties of (Cl-C4) alkylamino and di(Cl-C4) alkylamino are (un)substituted with an amino, (Cl-C4) alkylamino, or di(Cl-C4) alkylamino group; E is -C(O)-, -S(O)- or -SO₂-; T is -C(O)- or -CO₂-; L is -(CH₂)_n wherein n = 0-3; D is -(CHR10)_q-, wherein q = 1-3, or NR10; R10 is H or straight or branched (Cl-C3) alkyl.

IT 133998-80-8P, 6-(2-Chloroacetyl)-3,3-dimethyl-3,4-dihydro-1H-quinolin-2-one 133998-94-4P, 6-(2-Chloroethyl)-3,3-dimethyl-3,4-dihydro-1H-quinolin-2-one
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of N-substituted piperidine and piperazine derivs. dopamine D2 and serotonin 2A receptor antagonists)
 RN 133998-80-8 CAPLUS
 CN 2(1H)-Quinolinone, 6-(chloroacetyl)-3,4-dihydro-3,3-dimethyl- (9CI) (CA INDEX NAME)

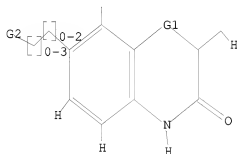


RN 133998-94-4 CAPLUS
 CN 2(1H)-Quinolinone, 6-(2-chloroethyl)-3,4-dihydro-3,3-dimethyl- (CA INDEX NAME)



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

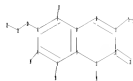
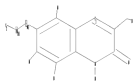
=> D L1
 L1 HAS NO ANSWERS
 L1 STR



G1 C,N
 G2 C,O,N

Structure attributes must be viewed using STN Express query preparation.

=>
 Uploading C:\Program Files\Stnexp\Queries\10596086.str



```

chain nodes :
14 15 16 17 18 19 20 21 22 27
ring nodes :
4 5 6 7 8 9 10 11 12 13
chain bonds :
4-18 5-19 6-20 7-17 11-15 12-27 13-14 15-16 20-21 21-22
ring bonds :
4-5 4-9 5-6 6-7 7-8 8-9 8-10 9-13 10-11 11-12 12-13
exact/norm bonds :
4-18 5-19 6-20 7-17 8-10 9-13 10-11 11-12 11-15 12-13 12-27 13-14 15-16
20-21 21-22
normalized bonds :
4-5 4-9 5-6 6-7 7-8 8-9

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G1:C,N

G2:C,O,N

G3

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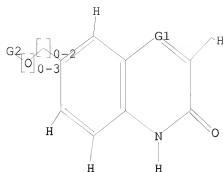
Match level :
4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:CLASS 12:Atom 13:Atom
14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:CLASS 20:CLASS 21:CLASS
22:CLASS 27:CLASS

```

L24 STRUCTURE UPLOADED

=> D L24

L24 HAS NO ANSWERS
L24 STR



G1 C,N
G2 C,O,N
G3

Structure attributes must be viewed using STN Express query preparation.

=> S L24
REGISTRY INITIATED
Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

SAMPLE SEARCH INITIATED 10:21:28 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 11058 TO ITERATE

18.1% PROCESSED 2000 ITERATIONS 50 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 214858 TO 227462
PROJECTED ANSWERS: 8717 TO 11407

L25 50 SEA SSS SAM L24

L26 2 L25

=> S L24 SSS FULL
REGISTRY INITIATED
Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

FULL SEARCH INITIATED 10:21:41 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 220811 TO ITERATE

100.0% PROCESSED 220811 ITERATIONS
SEARCH TIME: 00.00.01

9835 ANSWERS

L27 9835 SEA SSS FUL L24

L28 231 L27

=> S L24 NOT L28

REGISTRY INITIATED

Substance data SEARCH and crossover from CAS REGISTRY in progress...

Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

SAMPLE SEARCH INITIATED 10:22:00 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 11058 TO ITERATE

18.1% PROCESSED 2000 ITERATIONS

50 ANSWERS

INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 214858 TO 227462

PROJECTED ANSWERS: 8717 TO 11407

L29 50 SEA SSS SAM L24

L30 2 L29

L31 0 L30 NOT L28

=> S L4 NOT L28

L32 68 L4 NOT L28

=> S L32 OR L28

L33 299 L32 OR L28

=> D L32 1-5

L32 ANSWER 1 OF 68 CAPLUS COPYRIGHT 2008 ACS ON STN

AN 2007:1411046 CAPLUS

DN 148:214976

TI Rearrangement of furo[2,3-c]quinoline-2,4(3aH,5H)-diones to
furo[3,4-c]quinoline-3,4(1H,5H)-diones

AU Kafka, Stanislav; Kosmrlj, Janez; Klasek, Antonin; Pevec, Andrej

CS Faculty of Technology, Tomas Bata University in Zlin, Zlin, 762 72, Czech
Rep.

SO Tetrahedron Letters (2007), Volume Date 2008, 49(1), 90-93

CODEN: TELEAY; ISSN: 0040-4039

PB Elsevier Ltd.

DT Journal

LA English

RE.CNT 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 2 OF 68 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2007:969605 CAPLUS
DN 147:323004
TI Preparation of pyrimidine-2,4-diamines for inhibition of the JAK pathway
IN Argade, Ankush; Sran, Arvinder; Carroll, David; Clough, Jeffrey; Tso, Kin; Bhamidipati, Somasekhar; Thota, Sambaiiah; Singh, Rajinder; Taylor, Vanessa; Li, Hui; Masuda, Esteban
PA Rigel Pharmaceuticals, Inc., USA
SO U.S. Pat. Appl. Publ., 106pp., Cont.-in-part of U.S. Ser. No. 450,901.
CODEN: USXXCO

DT Patent
LA English

FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 20070203161	A1	20070830	US 2007-678429	20070223
	US 20060293311	A1	20061228	US 2006-450901	20060608
PRAI	US 2006-776636P	P	20060224		
	US 2006-450901	A2	20060608		
	US 2006-871098P	P	20061220		
	US 2005-689032P	P	20050608		
	US 2005-706638P	P	20050808		
OS	MARPAT 147:323004				

L32 ANSWER 3 OF 68 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2007:874181 CAPLUS
DN 147:257784
TI Preparation of benzoxazines and related nitrogen-containing heterobicyclic compounds as mineralocorticoid receptor modulators.
IN Iijima, Toru; Yamamoto, Yasuo; Akatsuka, Hidenori; Kawaguchi, Takayuki
PA Tanabe Seiyaku Co., Ltd., Japan
SO PCT Int. Appl., 140pp.
CODEN: PIXXD2

DT Patent
LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2007089034	A1	20070809	WO 2007-JP52165	20070201
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
	RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
PRAI	JP 2006-25403	A	20060202		
	JP 2006-275917	A	20061010		
OS	MARPAT 147:257784				

RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 4 OF 68 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2007:53912 CAPLUS

DN 146:151898
 TI Rewritable optical disks containing 1H-quinoxalin-2-one derivative
 IN Miyazato, Masataka; Shiozaki, Hiroyuki; Ishida, Tsutomu; Ogiso, Akira
 PA Mitsui Chemicals Inc., Japan
 SO Jpn. Kokai Tokkyo Koho, 47pp.
 CODEN: JKXXAF

DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2007008045	A	20070118	JP 2005-192588	20050630
PRAI	JP 2005-192588		20050630		
OS	MARPAT 146:151898				

L32 ANSWER 5 OF 68 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2006:999877 CAPLUS
 DN 146:7921
 TI Synthetic studies of bioactive quinoxalinones: A facile approach to potent
 euglycemic and hypolipidemic agents
 AU Kamila, Sukanta; Biehl, Edward R.
 CS Southern Methodist University, Dallas, TX, USA
 SO Heterocycles (2006), 68(9), 1931-1939
 CODEN: HTCYAM; ISSN: 0385-5414
 PB Japan Institute of Heterocyclic Chemistry
 DT Journal
 LA English
 OS CASREACT 146:7921
 RE.CNT 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> D L32 6-10

L32 ANSWER 6 OF 68 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2006:693843 CAPLUS
 DN 145:188698
 TI Design, synthesis, and biological evaluations of novel quinolones as HIV-1
 non-nucleoside reverse transcriptase inhibitors
 AU Ellis, David; Kuhen, Kelli L.; Anacletio, Beth; Wu, Baogen; Wolff, Karen;
 Yin, Hong; Bursulaya, Badry; Caldwell, Jeremy; Karanewsky, Donald; He, Yun
 CS Genomics Institute of the Novartis Research Foundation (GNF), San Diego,
 CA, 92121, USA
 SO Bioorganic & Medicinal Chemistry Letters (2006), 16(16), 4246-4251
 CODEN: BMCLE8; ISSN: 0960-894X
 PB Elsevier B.V.
 DT Journal
 LA English
 OS CASREACT 145:188698
 RE.CNT 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 7 OF 68 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2006:77226 CAPLUS
 DN 144:171019
 TI Preparation of quinoxalinones as estrogen receptor ligands for treating
 various diseases
 IN Mahaney, Paige Erin; Webb, Michael Byron; Ye, Fei; Sabatucci, Joseph Peter
 PA Wyeth, USA
 SO U.S. Pat. Appl. Publ., 21 pp.
 CODEN: USXXCO
 DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 20060019961	A1	20060126	US 2005-147489	20050608
	US 7351709	B2	20080401		
PRAI	US 2004-578179P	P	20040609		

OS MARPAT 144:171019

RE.CNT 44 THERE ARE 44 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 8 OF 68 CAPLUS COPYRIGHT 2008 ACS ON STN

AN 2006:77202 CAPLUS

DN 144:170990

TI Preparation of benzimidazole derivatives as gonadotropin releasing hormone receptor antagonists

IN Garrick, Lloyd M.; Hauze, Diane B.; Kees, Kenneth L.; Lundquist Iv, Joseph, T.; Mann, Charles, W.; Mehlmann, John, F.; Pelletier, Jeffrey, C.; Rogers, John, F., Jr.; Wrobel, Jay, E.

PA Wyeth, John, and Brother Ltd., USA; Green, Daniel M.

SO PCT Int. Appl., 149 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2006009734	A1	20060126	WO 2005-US21124	20050616
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	AU 2005264996	A1	20060126	AU 2005-264996	20050616
	CA 2570968	A1	20060126	CA 2005-2570968	20050616
	US 20060019965	A1	20060126	US 2005-154795	20050616
	EP 1758895	A1	20070307	EP 2005-762686	20050616
	R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, LV				
	CN 101006078	A	20070725	CN 2005-80027480	20050616
	JP 2008503469	T	20080207	JP 2007-516680	20050616
	BR 2005012261	A	20080226	BR 2005-12261	20050616
	IN 2006KN03565	A	20070615	IN 2006-KN3565	20061128
	KR 2007027584	A	20070309	KR 2006-726441	20061215
	MX 2006PA14798	A	20070622	MX 2006-PA14798	20061215
	NO 2007000294	A	20070228	NO 2007-294	20070116
PRAI	US 2004-580640P	P	20040617		
	WO 2005-US21124	W	20050616		

OS MARPAT 144:170990

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 9 OF 68 CAPLUS COPYRIGHT 2008 ACS ON STN

AN 2005:638875 CAPLUS

DN 143:153404

TI Preparation of N-substituted piperidine and piperazine derivatives
dopamine D2 and serotonin 2A receptor antagonists
IN Cho, Stephen Sung Yong; Gregory, Tracy Fay; Guzzo, Peter Robert; Howard,
Harry Ralph, Jr.; Nikam, Sham Shridhar; Surman, Matthew David; Walters,
Michael Anthony
PA Warner-Lambert Company LLC., USA
SO PCT Int. Appl., 144 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005066165	A1	20050721	WO 2004-IB4239	20041220
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
CA 2551346	A1	20050721	CA 2004-2551346	20041220
EP 1701954	A1	20060920	EP 2004-806416	20041220
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, IS			
BR 2004018255	A	20070417	BR 2004-18255	20041220
JP 2007517014	T	20070628	JP 2006-546393	20041220
MX 2006PA07654	A	20060904	MX 2006-PA7654	20060630
PRAI US 2003-533761P	P	20031231		
WO 2004-IB4239	W	20041220		

OS MARPAT 143:153404

RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 10 OF 68 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2005:635973 CAPLUS

DN 143:286315

TI Synthesis of pyrrolo[3,4-c]quinolines by 1,5-electrocyclisation of non-stabilized azomethine ylides

AU Nyerges, Miklos; Pinter, Aron; Viranyi, Andrea; Blasko, Gabor; Toke, Laszlo

CS Department of Organic Chemical Technology, Research Group of the Hungarian Academy of Sciences, Technical University of Budapest, Budapest, H-1521, Hung.

SO Tetrahedron (2005), 61(34), 8199-8205

CODEN: TETRAB; ISSN: 0040-4020

PB Elsevier B.V.

DT Journal

LA English

OS CASREACT 143:286315

RE.CNT 38 THERE ARE 38 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> D L32 7 IBIB ABS HITSTR

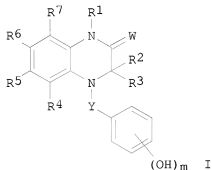
L32 ANSWER 7 OF 68 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2006:77226 CAPLUS

DOCUMENT NUMBER: 144:171019
 TITLE: Preparation of quinoxalinones as estrogen receptor ligands for treating various diseases
 INVENTOR(S): Mahaney, Paige Erin; Webb, Michael Byron; Ye, Fei; Sabatucci, Joseph Peter
 PATENT ASSIGNEE(S): Wyeth, USA
 SOURCE: U.S. Pat. Appl. Publ., 21 pp.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20060019961	A1	20060126	US 2005-147489	20050608
US 7351709	B2	20080401		
PRIORITY APPLN. INFO.: OTHER SOURCE(S):	MARPAT 144:171019		US 2004-578179P	P 20040609

GI



AB The present invention provides estrogen receptor ligands of formula I: wherein: m = 1-5; n = 0-5; W = O or C(R8)2; Y = [C(R8)2]n-X-[C(R8)2]n, wherein X = a bond, O, OC(:O), C(:O), or S(O)2; R1 = H, C1-C6 alkyl, C2-C7 alkenyl, cycloalkyl, cycloalkenyl, or arylalkyl; R2 and R3 = H, C1-C6 alkyl, or C2-C7 alkenyl, provided that both are not H; R4, R5, R6, and R7 = H, C1-C6 alkyl, C2-C7 alkenyl, hydroxy, alkoxy, aryloxy, halogen, trifluoromethyl, CN, NO2, C(:O)R8, or C(:O)OR8; and R8 = H, C1-C6 alkyl, or Ph. The present invention also relates to substituted 4-(hydroxybenzoyl)-3,4-dihydroquinoxalin-2(1H)-ones and substituted 4-(hydroxyphenylsulfonyl)-3,4-dihydroquinoxalin-2(1H)-ones useful for the treatment of the inflammatory component of diseases. These comps. are useful in treating diseases associated with excessive estrogen receptor activity, particularly atherosclerosis, myocardial infarction, congestive heart failure, inflammatory bowel disease, arthritis, type II diabetes, and autoimmune diseases such as multiple sclerosis and rheumatoid arthritis. Thus, (3R)-3-Ethyl-7-fluoro-4-(4-hydroxybenzoyl)-1-methyl-3,4-dihydroquinoxalin-2(1H)-one (II) was prepared from 2,5-difluoronitrobenzene, (R)-2-aminobutyric acid, and 4-methoxybenzoyl chloride in 5 steps. In Ad5-wt-ER infected HAECT-1 cells, II and the other comps. of the invention potentially and efficaciously inhibit IL-6 expression but do not induce CK expression in an ER-dependent manner.

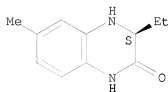
IT 874216-91-8P, (3S)-3-Ethyl-6-methyl-3,4-dihydroquinoxalin-2(1H)-one 874216-92-9P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of quinoxalinones as estrogen receptor ligands for treating various diseases)

RN 874216-91-8 CAPLUS

CN 2(1H)-Quinoxalinone, 3-ethyl-3,4-dihydro-6-methyl-, (3S)- (CA INDEX NAME)

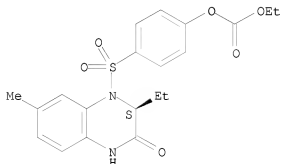
Absolute stereochemistry.



RN 874216-92-9 CAPLUS

CN Carbonic acid, ethyl 4-[[[(2S)-2-ethyl-3,4-dihydro-7-methyl-3-oxo-1(2H)-quinoxaliny]sulfonyl]phenyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 44 THERE ARE 44 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> D L32 9 IBIB ABS HITSTR

L32 ANSWER 9 OF 68 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2005:638875 CAPLUS

DOCUMENT NUMBER: 143:153404

TITLE: Preparation of N-substituted piperidine and piperazine derivatives dopamine D2 and serotonin 2A receptor antagonists

INVENTOR(S): Cho, Stephen Sung Yong; Gregory, Tracy Fay; Guzzo, Peter Robert; Howard, Harry Ralph, Jr.; Nikam, Sham Shridhar; Surman, Matthew David; Walters, Michael Anthony

PATENT ASSIGNEE(S): Warner-Lambert Company LLC., USA

SOURCE: PCT Int. Appl., 144 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005066165	A1	20050721	WO 2004-IB4239	20041220

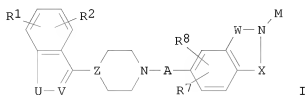
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

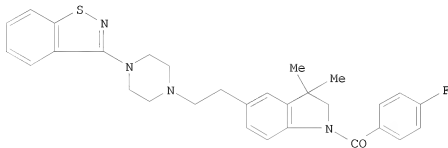
CA 2551346	A1	20050721	CA 2004-2551346	20041220
EP 1701954	A1	20060920	EP 2004-806416	20041220
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, IS			
BR 2004018255	A	20070417	BR 2004-18255	20041220
JP 2007517014	T	20070628	JP 2006-546393	20041220
MX 2006PA07654	A	20060904	MX 2006-PA7654	20060630
			US 2003-533761P	P 20031231
			WO 2004-IB4239	W 20041220

PRIORITY APPLN. INFO.:

OTHER SOURCE(S): MARPAT 143:153404
GI



I

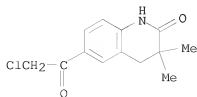


II

AB This invention relates to N-substituted piperidine and piperazine derivs. (shown as I; variables defined below; e.g. [5-[2-[4-(benzo[d]isothiazol-3-yl)piperazin-1-yl]ethyl]-3,3-dimethyl-2,3-dihydroindol-1-yl](4-fluorophenyl)methanone (shown as II)), pharmaceutical compns. containing them and their use in the treatment of central nervous system and other disorders. Although the methods of preparation are not claimed, example preps. and/or characterization data for .apprx.160 I are included. For example, II was prepared in 98 % yield by coupling 3-[4-[2-(3,3-dimethyl-2,3-dihydro-1H-indol-5-yl)ethyl]piperazin-1-yl]benzo[d]isothiazole with 4-fluorobenzoyl chloride; the benzo[d]isothiazole reactant was prepared in 79 % yield by reduction of 5-[2-[4-(benzo[d]isothiazol-3-yl)piperazin-1-yl]ethyl]-3,3-dimethyl-1,3-dihydroindol-2-one, which was prepared in 96 % yield from 3-(piperazin-1-yl)benzo[d]isothiazole and 5-(2-chloroethyl)-3,3-dimethyl-1,3-dihydroindol-2-one, which was prepared in 45 % yield by reduction of 5-(2-chloroethyl)-3,3-dimethyl-1,3-dihydroindol-2-one, which was prepared in >96 % yield from chloroacetyl chloride and 3,3-dimethyl-1,3-dihydroindol-2-one. For I: M = E-R9, L-T-R9, T-D-R9; U is S, O, SO, SO2,

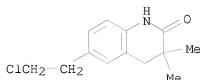
CH2 or NR3; V is N or C; Z is N or C; A is -(CH2)mO-, -(CH2)mNR4-, or -(CH2)mC(R5R6)-, wherein R5 and R6 = H, (C1-C4) alkyl (un)substituted with 1-3 F atoms, (C1-C4) alkoxy (un)substituted with 1-3 F atoms, hydroxy, and aminoalkyl; or R5 and R6 together form a carbonyl, and wherein m = 1-4. R1 and R2 = H, (C1-C4) alkyl (un)substituted with 1-3 F atoms, (C1-4) alkoxy (un)substituted with 1-3 F atoms, halogen, nitro, cyano, amino, (C1-C4) alkylamino and di(C1-C4) alkylamino; R3 and R4 = H, (C1-C4) alkyl (un)substituted with 1-3 F atoms and (C1-C4) alkoxy (un)substituted with 1-3 F atoms; or, when U is NR3, one of R1 and R2 can form, together with the C to which it is attached, and together with R3 and the N to which it is attached, a heterocyclic ring containing 4-7 ring members of which 1-3 ring members can be N, O and S, and of which the remaining ring members are C, with the proviso that when R3 forms a ring with one of R1 and R2, the other of R1 and R2 is absent. X is -[C(R11)(R12)]o-, wherein R11 and R12 = H and (C1-C4) alkyl (un)substituted with 1-3 F atoms, and wherein o = 0-3, with the proviso that when W is absent, o ≥ 2; W is -[C(R13)(R14)]p-, wherein R13 and R14 = H and (C1-C4) alkyl (un)substituted with 1-3 F atoms, and wherein p = 0-4, with the proviso that when X is absent, p ≥ 2; R7 and R8 = halo, R1 and -OR1; or R7, when attached to a C adjacent to one of the C atoms shared by both the Ph ring to which R7 is attached and the ring containing W, N and X, forms, together with a C atom of X or a C atom of W, a saturated carbocyclic ring containing 3-6 C atoms. R9 = Ph, phenoxy, benzyloxy, and phenylamino, wherein the Ph moieties are (un)substituted with 1-3 halo, (C1-C3) alkyl (un)substituted with 1-3 F atoms, (C1-C3) alkoxy (un)substituted with 1-3 F atoms, nitro, cyano, amino, and (C1-C3) alkylamino; or R9 is a pyrrolidine, piperidine or morpholine ring wherein the point of attachment to D, T or E is the ring N, and wherein said pyrrolidine, piperidine or morpholine ring can be (un)substituted with 1 or 2 Me, amino, (C1-04) alkylamino, and di(C1-C4) alkylamino; or R9 is a furan, thiophene, or pyrazole ring (un)substituted with 1-2 (C1-C4) alkyl groups; or R9 is (C1-C6) straight or branched alkyl or (C3-C6) cycloalkyl, wherein said straight, branched and cyclic alkyl moieties are be (un)substituted with 1-3 halo atoms or (C1-C4) alkoxy (un)substituted with 1-3 F atoms; or R9 is halogen, nitro, cyano, amino, (C1-C4) alkylamino, di(C1-C4) alkylamino or OR1, wherein the alkyl moieties of (C1-C4) alkylamino and di(C1-C4) alkylamino are (un)substituted with an amino, (C1-C4) alkylamino, or di(C1-C4) alkylamino group; E is -C(O)-, -S(O)- or -SO2-; T is -C(O)- or -CO2-; L is -(CH2)n wherein n = 0-3; D is -(CHR10)q-, wherein q = 1-3, or NR10; R10 is H or straight or branched (C1-C3) alkyl.

IT 133998-80-8P, 6-(2-Chloroacetyl)-3,3-dimethyl-3,4-dihydro-1H-quinolin-2-one 133998-94-4P, 6-(2-Chloroethyl)-3,3-dimethyl-3,4-dihydro-1H-quinolin-2-one
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of N-substituted piperidine and piperazine derivs. dopamine D2 and serotonin 2A receptor antagonists)
 RN 133998-80-8 CAPLUS
 CN 2(1H)-Quinolinone, 6-(chloroacetyl)-3,4-dihydro-3,3-dimethyl- (9CI) (CA INDEX NAME)



RN 133998-94-4 CAPLUS

CN 2(1H)-Quinolinone, 6-(2-chloroethyl)-3,4-dihydro-3,3-dimethyl- (CA INDEX NAME)



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> D L32 11-15

L32 ANSWER 11 OF 68 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2005:592783 CAPLUS

DN 143:259482

TI Syntheses and binding affinities of 6-nitroquipazine analogues for serotonin transporter. Part 4: 3-Alkyl-4-halo-6-nitroquipazines

AU Moon, Byung Seok; Lee, Byoung Se; Chi, Dae Yoon

CS Department of Chemistry, Inha University, Incheon, 402-751, S. Korea

SO Bioorganic & Medicinal Chemistry (2005), 13(16), 4952-4959

CODEN: BMECEP; ISSN: 0968-0896

PB Elsevier Ltd.

DT Journal

LA English

OS CASREACT 143:259482

RE.CNT 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 12 OF 68 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2005:527840 CAPLUS

DN 143:77752

TI A novel intramolecular photocyclization of N-(2-bromoalkanoyl) derivatives of 2-acylanilines via 1,8-hydrogen abstraction

AU Nishio, Takehiko; Koyama, Hiroyuki; Sasaki, Daigo; Sakamoto, Masami

CS Department of Chemistry, Graduate School of Pure and Applied Sciences,

University of Tsukuba, Ibaraki, 305-8571, Japan

SO Helvetica Chimica Acta (2005), 88(5), 996-1003

CODEN: HCACAV; ISSN: 0018-019X

PB Verlag Helvetica Chimica Acta

DT Journal

LA English

OS CASREACT 143:77752

RE.CNT 30 THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 13 OF 68 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2005:360410 CAPLUS

DN 143:60232

TI The synthesis of 'tyrosyl' peptidomimetics by acid-catalyzed N(1)-C(4) ring opening of 4-(4'-hydroxyphenyl)-azetidine-2-ones

AU Mandal, Pijus Kumar; Cabell, Larry A.; McMurray, John S.

CS M.D. Anderson Cancer Center, Department of Neuro-Oncology, The University of Texas, Houston, TX, 77030, USA

SO Tetrahedron Letters (2005), 46(21), 3715-3718

CODEN: TELEAY; ISSN: 0040-4039

PB Elsevier B.V.

DT Journal
 LA English
 OS CASREACT 143:60232
 RE.CNT 50 THERE ARE 50 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 14 OF 68 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2005:300419 CAPLUS
 DN 142:373844
 TI Preparation of tetrazole, thiazolidindione derivatives as AGEs production inhibitors
 IN Yanagisawa, Hiroaki; Amemiya, Yoshiya; Kurokawa, Kiyoshi; Miyata, Toshio
 PA Sankyo Company, Limited, Japan; Renaissance Co., Ltd.
 SO PCT Int. Appl., 59 pp.
 CODEN: PIXXD2
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005030737	A1	20050407	WO 2004-JP14684	20040929
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	CA 2540355	A1	20050407	CA 2004-2540355	20040929
	EP 1679310	A1	20060712	EP 2004-773615	20040929
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK				
	BR 2004014944	A	20061107	BR 2004-14944	20040929
	CN 1886386	A	20061227	CN 2004-80034949	20040929
	US 20070105846	A1	20070510	US 2006-573274	20060707
PRAI	JP 2003-340007	A	20030930		
	WO 2004-JP14684	W	20040929		

OS MARPAT 142:373844
 RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 15 OF 68 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2005:295614 CAPLUS
 DN 142:481927
 TI Regioselective synthesis of 3,3-diethyl-4-(methylene)-1-quinol-2-ones by an intramolecular microwave assisted Heck reaction
 AU Smalley, Terrence L., Jr.; Mills, Wendy Y.
 CS Metabolic & Viral CEDD Chemistry, GlaxoSmithKline, Inc., Research Triangle Park, NC, 27709, USA
 SO Journal of Heterocyclic Chemistry (2005), 42(2), 327-331
 CODEN: JHTCAD; ISSN: 0022-152X
 PB HeteroCorporation
 DT Journal
 LA English
 OS CASREACT 142:481927
 RE.CNT 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> D 15 IBIB ABS HITSTR

L33 ANSWER 15 OF 299 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2007:521015 CAPLUS

DOCUMENT NUMBER: 147:30962

TITLE: Preparation of 1,2-dihydroquinoline derivatives as inhibitors of epithelial growth factor receptor for treatment of tumor

INVENTOR(S): Luo, Xiaomin; Li, Jian; Jiang, Huailiang; Shen, Xu; Liu, Hong; Shen, Jianhua; Zhu, Weiliang; Fu, Lili; Li, Lin; Mei, Changlin

PATENT ASSIGNEE(S): Shanghai Institute of Materia Medica, Chinese Academy of Sciences, Peop. Rep. China

SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu, 19pp.

CODEN: CNXXEV

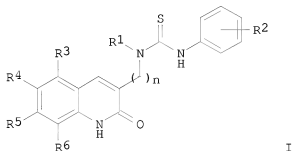
DOCUMENT TYPE: Patent

LANGUAGE: Chinese

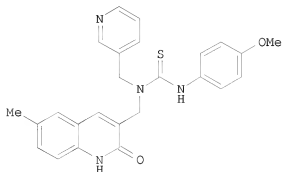
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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CN 1958572	A	20070509	CN 2005-10110045	20051104
PRIORITY APPLN. INFO.:			CN 2005-10110045	20051104
OTHER SOURCE(S):			CASREACT 147:30962; MARPAT 147:30962	
GI				



I



II

AB The title 1,2-dihydroquinoline derivs. I [wherein n = 1-3; R1 and R2 = independently H, (cyclo)alkyl, benzyl, or (un)substituted (hetero)aryl; R3-R6 = independently H, alkyl, alkoxy, NO2, halo, etc.], or enantiomers, diastereoisomers, racemates, mixts., or pharmaceutically acceptable salts

thereof were prepared as inhibitors of epithelial growth factor receptor (EGFR) for treatment of tumor (no data). For example, II was prepared in a multi-step synthesis. II showed 55.3% inhibitory activity against SPCal human lung cancer cell.

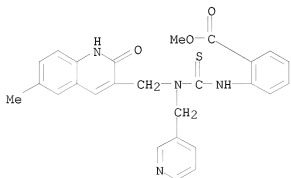
IT 460339-75-7P 483332-87-2P 483332-89-4P
914774-16-6P 914774-24-6P 914774-25-7P
914774-31-5P 914774-33-7P 938446-55-0P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(drug candidate; preparation of 1,2-dihydroquinoline derivs. as EGFR inhibitors for treatment of tumor)

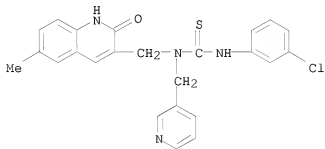
RN 460339-75-7 CAPLUS

CN Benzoic acid, 2-[[[(1,2-dihydro-6-methyl-2-oxo-3-quinolinyl)methyl](3-pyridinylmethyl)amino]thioxomethyl]amino]-, methyl ester (CA INDEX NAME)



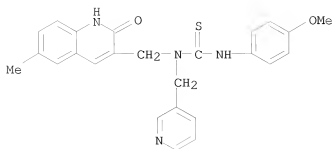
RN 483332-87-2 CAPLUS

CN Thiourea, N'-(3-chlorophenyl)-N'-[(1,2-dihydro-6-methyl-2-oxo-3-quinolinyl)methyl]-N-(3-pyridinylmethyl)- (CA INDEX NAME)



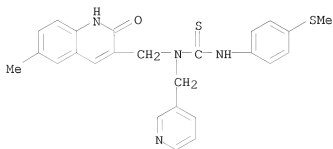
RN 483332-89-4 CAPLUS

CN Thiourea, N'-[(1,2-dihydro-6-methyl-2-oxo-3-quinolinyl)methyl]-N'-(4-methoxyphenyl)-N-(3-pyridinylmethyl)- (CA INDEX NAME)



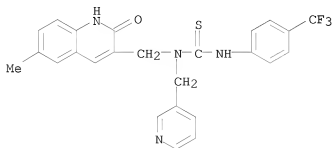
RN 914774-16-6 CAPLUS

CN Thiourea, N-[(1,2-dihydro-6-methyl-2-oxo-3-quinolinyl)methyl]-N'-[4-(methylthio)phenyl]-N-(3-pyridinylmethyl)- (CA INDEX NAME)



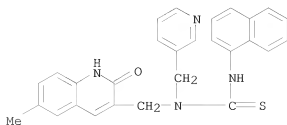
RN 914774-24-6 CAPLUS

CN Thiourea, N-[(1,2-dihydro-6-methyl-2-oxo-3-quinolinyl)methyl]-N-(3-pyridinylmethyl)-N'-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)



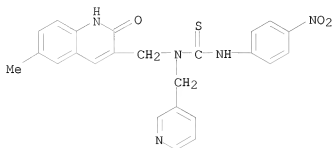
RN 914774-25-7 CAPLUS

CN Thiourea, N-[(1,2-dihydro-6-methyl-2-oxo-3-quinolinyl)methyl]-N'-1-naphthalenyl-N-(3-pyridinylmethyl)- (CA INDEX NAME)



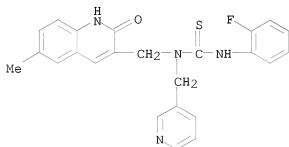
RN 914774-31-5 CAPLUS

CN Thiourea, N-[(1,2-dihydro-6-methyl-2-oxo-3-quinolinyl)methyl]-N'-(4-nitrophenyl)-N-(3-pyridinylmethyl)- (CA INDEX NAME)



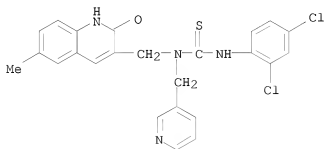
RN 914774-33-7 CAPLUS

CN Thiourea, N-[(1,2-dihydro-6-methyl-2-oxo-3-quinolinyl)methyl]-N'-(2-fluorophenyl)-N-(3-pyridinylmethyl)- (CA INDEX NAME)



RN 938446-55-0 CAPLUS

CN Thiourea, N'-(2,4-dichlorophenyl)-N-[(1,2-dihydro-6-methyl-2-oxo-3-quinolinyl)methyl]-N-(3-pyridinylmethyl)- (CA INDEX NAME)

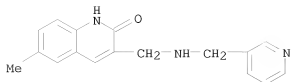


IT 462068-05-9

RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of 1,2-dihydroquinoline derivs. as EGFR inhibitors for treatment of tumor)

RN 462068-05-9 CAPLUS

CN 2(1H)-Quinolinone, 6-methyl-3-[[[(3-pyridinylmethyl)amino]methyl]- (CA INDEX NAME)



=> D 16-20

- L33 ANSWER 16 OF 299 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2007:427291 CAPLUS
 DN 147:45189
 TI High-throughput screening for small-molecule activators of neutrophils: identification of novel N-formyl peptide receptor agonists
 AU Schepetkin, Igor A.; Kirpotina, Liliya N.; Khlebnikov, Andrei I.; Quinn, Mark T.
 CS Department of Veterinary Molecular Biology, Montana State University, Bozeman, MT, USA
 SO Molecular Pharmacology (2007), 71(4), 1061-1074
 CODEN: MOPMA3; ISSN: 0026-895X
 PB American Society for Pharmacology and Experimental Therapeutics
 DT Journal
 LA English
 RE.CNT 39 THERE ARE 39 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT
- L33 ANSWER 17 OF 299 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2007:128762 CAPLUS
 DN 146:350581
 TI Structure-Based Pharmacophore Identification of New Chemical Scaffolds as Non-Nucleoside Reverse Transcriptase Inhibitors
 AU Barreca, Maria Letizia; De Luca, Laura; Iraci, Nunzio; Rao, Angela; Ferro, Stefania; Maga, Giovanni; Chimirri, Alba
 CS Dipartimento Farmaco-Chimico, Universita di Messina, Messina, 98168, Italy
 SO Journal of Chemical Information and Modeling (2007), 47(2), 557-562
 CODEN: JCISD8; ISSN: 1549-9596
 PB American Chemical Society
 DT Journal
 LA English
 RE.CNT 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT
- L33 ANSWER 18 OF 299 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2007:126145 CAPLUS
 DN 146:379791
 TI Atropisomeric 3-(β -hydroxyethyl)-4-arylquinolin-2-ones as Maxi-K Potassium Channel Openers
 AU Vrudhula, Vivekananda M.; Dasgupta, Bireshwar; Qian-Cutrone, Jingfang; Kozlowski, Edward S.; Boissard, Christopher G.; Dworetzky, Steven I.; Wu, Dedong; Gao, Qi; Kimura, Roy; Gribkoff, Valentin K.; Starrett, John E., Jr.
 CS Bristol-Myers Squibb Pharmaceutical Research Institute, Wallingford, CT, 06492, USA
 SO Journal of Medicinal Chemistry (2007), 50(5), 1050-1057
 CODEN: JMCMAR; ISSN: 0022-2623
 PB American Chemical Society
 DT Journal
 LA English

OS CASREACT 146:379791

RE.CNT 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L33 ANSWER 19 OF 299 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2007:61837 CAPLUS

DN 146:156236

TI Cellular cholesterol absorption modifiers, and their therapeutic use
IN Gardiner, Elisabeth M.; Duron, Sergio G.; Massari, Mark E.; Severance,
Daniel L.; Semple, Joseph E.

PA Kalypsys, Inc., USA

SO PCT Int. Appl., 300pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2007008541	A2	20070118	WO 2006-US26242	20060705
	WO 2007008541	A3	20070726		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
	RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA				
PRAI	US 2005-697659P	P	20050708		
	US 2005-697686P	P	20050708		
	US 2005-697814P	P	20050708		
	US 2005-727646P	P	20051017		
	US 2006-782303P	P	20060313		
OS	MARPAT 146:156236				

L33 ANSWER 20 OF 299 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2007:53912 CAPLUS

DN 146:151898

TI Rewritable optical disks containing 1H-quinoxalin-2-one derivative
IN Miyazato, Masataka; Shiozaki, Hiroyuki; Ishida, Tsutomu; Ogiso, Akira
PA Mitsui Chemicals Inc., Japan
SO Jpn. Kokai Tokkyo Koho, 47pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2007008045	A	20070118	JP 2005-192588	20050630
PRAI	JP 2005-192588		20050630		
OS	MARPAT 146:151898				

=> D L32 14 IBIB ABS HITSTR

L32 ANSWER 14 OF 68 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2005:300419 CAPLUS

DOCUMENT NUMBER: 142:373844

TITLE: Preparation of tetrazole, thiazolidindione derivatives as AGEs production inhibitors
 INVENTOR(S): Yanagisawa, Hiroaki; Amemiya, Yoshiya; Kurokawa, Kiyoshi; Miyata, Toshio
 PATENT ASSIGNEE(S): Sankyo Company, Limited, Japan; Renascience Co., Ltd.
 SOURCE: PCT Int. Appl., 59 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005030737	A1	20050407	WO 2004-JP14684	20040929
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2540355	A1	20050407	CA 2004-2540355	20040929
EP 1679310	A1	20060712	EP 2004-773615	20040929
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK				
BR 2004014944	A	20061107	BR 2004-14944	20040929
CN 1886386	A	20061227	CN 2004-80034949	20040929
US 20070105846	A1	20070510	US 2006-573274	20060707
PRIORITY APPLN. INFO.:			JP 2003-340007	A 20030930
			WO 2004-JP14684	W 20040929
OTHER SOURCE(S):		MARPAT 142:373844		
GI				

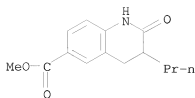
* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Title compds. I [A = II, etc.; B = 1H-tetrazol-5-yl, 1,4-dioxothiazolin-5-yl; Y = single bond, arylene; R7A =alkylcarbonyl] were prepared For example, acylation of 3-aminobenzoic acid Et ester with pentanoyl chloride followed by reaction with [4-(2-(3-triphenylmethyl-3H-tetrazol-5-yl)phenyl)phenyl]methyl bromide, treatment with 75% aqueous acetic acid, aqueous LiOH afforded compound III. In AGEs (advanced glycation end products) production inhibition assays, compound III exhibited the inhibitory activity of 18.1%. Compds. I are useful for the treatment of complicated diabetes, etc. Formulations are given.

IT 849419-71-2P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of tetrazole, thiazolidindione derivs. as AGEs production inhibitors for treatment of complicated diabetes, etc.)

RN 849419-71-2 CAPLUS

CN 6-Quinolinecarboxylic acid, 1,2,3,4-tetrahydro-2-oxo-3-propyl-, methyl ester (CA INDEX NAME)



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> D L32 16-20

L32 ANSWER 16 OF 68 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2005:177819 CAPLUS

DN 142:280224

TI A combinatorial preparation of N-containing heterocycles, useful as caspase-3 inhibitors

IN Ivashchenko, Alexander Vasilievich; Ilyin, Alexey Petrovich; Kobak, Vladimir Vasilievich; Kravchenko, Dmitri Vladimirovich; Khvat, Alexander Viktorovich; Tkachenko, Sergey Yevgenievich; Okun, Ilya Matusovich

PA Chemical Diversity Research Institute, Ltd., Russia

SO PCT Int. Appl., 84 pp.

CODEN: PIXXD2

DT Patent

LA Russian

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005018531	A2	20050303	WO 2004-RU331	20040825
	WO 2005018531	A3	20050512		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
	RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
	RU 2248978	C1	20050327	RU 2003-125936	20030826
	RU 2259999	C2	20050910	RU 2003-125938	20030826
	RU 2251546	C1	20050510	RU 2003-126299	20030829
PRAI	RU 2003-125936	A	20030826		
	RU 2003-125938	A	20030826		
	RU 2003-126299	A	20030829		
OS	MARPAT 142:280224				

L32 ANSWER 17 OF 68 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2005:146132 CAPLUS

DN 142:392149

TI Photochemistry of N-(2-acylphenyl)-2-methylprop-2-enamides: competition between photocyclization and long-range hydrogen abstraction

AU Nishio, Takehiko; Tabata, Megumi; Koyama, Hiroyuki; Sakamoto, Masami

CS Department of Chemistry, University of Tsukuba, Tsukuba, 305-8571, Japan

SO Helvetica Chimica Acta (2005), 88(1), 78-86

CODEN: HCACAV; ISSN: 0018-019X

PB Verlag Helvetica Chimica Acta
DT Journal
LA English
OS CASREACT 142:392149

RE.CNT 27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 18 OF 68 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2005:137055 CAPLUS
DN 142:373663
TI A convenient synthesis of quinolin-2(1H)-one ring system as precursor of
active drugs
AU Giuglio-Tonolo, Gamal; Terme, Thierry; Vanelle, Patrice
CS Laboratoire de Chimie Organique Pharmaceutique (LCOP), UMR CNRS 6517
Faculte de Pharmacie, Marseille, 13385, Fr.
SO Synlett (2005), (2), 251-254
CODEN: SYNLES; ISSN: 0936-5214
PB Georg Thieme Verlag
DT Journal
LA English
OS CASREACT 142:373663

RE.CNT 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 19 OF 68 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2004:258080 CAPLUS
DN 141:314292
TI Thermal rearrangement of 3-phenacylquinoxalones-2
AU Kolos, N. N.; Berezkina, T. V.; Orlov, V. D.
CS Khar'kov. Nats. Univ. im. V. N. Karazina, Kharkov, 61077, Ukraine
SO Zhurnal Organichnoi ta Farmatsevtichnoi Khimii (2003), 1(1-2), 31-34
CODEN: ZOFCAM
PB Natsional'nii Farmatsevtichnii Universitet
DT Journal
LA Russian
OS CASREACT 141:314292

L32 ANSWER 20 OF 68 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2003:867254 CAPLUS
DN 140:141784
TI Syntheses and binding affinities of 6-nitroquipazine analogues for
serotonin transporter: Part 3. A potential 5-HT transporter imaging agent,
3-(3-[18F]fluoropropyl)-6-nitroquipazine
AU Lee, Byoung Se; Chu, Soyoung; Lee, Kyo Chul; Lee, Bon-Su; Chi, Dae Yoon;
Choe, Yearn Seong; Kim, Sang Eun; Song, Yun Seon; Jin, Changbae
CS Department of Chemistry, Inha University, Incheon, 402-751, S. Korea
SO Bioorganic & Medicinal Chemistry (2003), 11(23), 4949-4958
CODEN: BMECEP; ISSN: 0968-0896
PB Elsevier Ltd.
DT Journal
LA English
RE.CNT 35 THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> D L32 16-68 IBIB ABS HITSTR

L32 ANSWER 16 OF 68 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2005:177819 CAPLUS
DOCUMENT NUMBER: 142:280224
TITLE: A combinatorial preparation of N-containing
heterocycles, useful as caspase-3 inhibitors

INVENTOR(S): Ivashchenko, Alexander Vasilievich; Ilyin, Alexey Petrovich; Kobak, Vladimir Vasilievich; Kravchenko, Dmitri Vladimirovich; Khvat, Alexander Viktorovich; Tkachenko, Sergey Yevgenievich; Okun, Ilya Matusovich

PATENT ASSIGNEE(S): Chemical Diversity Research Institute, Ltd., Russia

SOURCE: PCT Int. Appl., 84 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Russian

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005018531	A2	20050303	WO 2004-RU331	20040825
WO 2005018531	A3	20050512		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

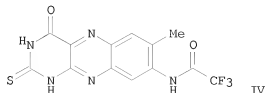
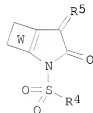
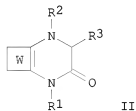
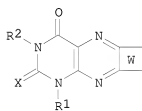
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

RU 2248978	C1	20050327	RU 2003-125936	20030826
RU 2259999	C2	20050910	RU 2003-125938	20030826
RU 2251546	C1	20050510	RU 2003-126299	20030829

PRIORITY APPLN. INFO.: RU 2003-125936 A 20030826
RU 2003-125938 A 20030826
RU 2003-126299 A 20030829

OTHER SOURCE(S): MARPAT 142:280224

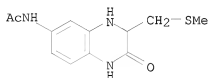
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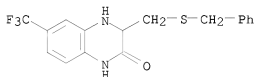
AB The invention relates to a combinatorial preparation of N-containing heterocycles

of formulas I, II, and III [wherein: R1, R2, and R3 are independently H or inert substituents; R4 is (cyclo)alkyl, aryl, or heterocyclyl; R5 is O or 4-7-membered (hetero)cycle attached to the pyrrole ring by carbon; W is (un)substituted carbocycle or heterocycle; X is O or S], useful as caspase-3 inhibitors. For instance, 2,3-dihydro-1H-benzo[g]pteridin-4-one derivs. were prepared with yields of 40-90%. The invention compds. were tested for caspase-3 inhibition (IV, IC50 = 265 nM).

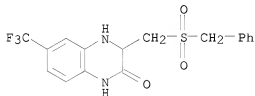
IT 847362-54-3P 847362-56-5P 847362-64-5P
 RL: CPN (Combinatorial preparation); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); CMBI (Combinatorial study); PREP (Preparation); USES (Uses)
 (preparation of N-containing heterocycles useful as caspase 3 inhibitors)
 RN 847362-54-3 CAPLUS
 CN Acetamide, N-[1,2,3,4-tetrahydro-3-[(methylthio)methyl]-2-oxo-6-quinoxaliny]- (CA INDEX NAME)



RN 847362-56-5 CAPLUS
 CN 2(1H)-Quinoxalinone, 3,4-dihydro-3-[[(phenylmethyl)thio]methyl]-6-(trifluoromethyl)- (CA INDEX NAME)



RN 847362-64-5 CAPLUS
 CN 2(1H)-Quinoxalinone, 3,4-dihydro-3-[[(phenylmethyl)sulfonyl]methyl]-6-(trifluoromethyl)- (CA INDEX NAME)



L32 ANSWER 17 OF 68 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2005:146132 CAPLUS

DOCUMENT NUMBER: 142:392149

TITLE: Photochemistry of N-(2-acylphenyl)-2-methylprop-2-enamides: competition between photocyclization and long-range hydrogen abstraction

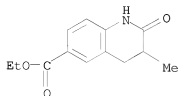
AUTHOR(S): Nishio, Takehiko; Tabata, Megumi; Koyama, Hiroyuki; Sakamoto, Masami

CORPORATE SOURCE: Department of Chemistry, University of Tsukuba,

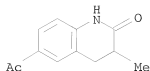
SOURCE: Tsukuba, 305-8571, Japan
 Helvetica Chimica Acta (2005), 88(1), 78-86
 CODEN: HCACAV; ISSN: 0018-019X
 PUBLISHER: Verlag Helvetica Chimica Acta
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 142:392149
 GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

- AB N-(2-acylphenyl)acrylamides I (R = Me, EtO, Ph; R1 = H, Me, Et, PhCH2; R2, R3, R4 = H, Me; R5 = H, Cl) undergo photocyclization and hydrogen transfer reactions to yield dihydroacylquinolinones II (R = Me, EtO, Ph; R1 = Me, Et, PhCH2; R2, R3, R4 = H, Me; R5 = H, Cl) and hydroxybenzenepropanamides III (R1 = Me, Et, PhCH2; R5 = H, Cl); acetylphenylacrylamides or ethoxycarbonylphenylacrylamides I (R = Me, EtO; R1 = Me, Et, PhCH2; R2, R3, R4 = H, Me; R5 = H) give II (R = Me, EtO; R1 = Me, Et, PhCH2; R2, R3, R4 = H, Me; R5 = H) as the major products, while benzoylphenylacrylamides I (R = Ph; R1 = Me, Et, PhCH2; R2 = Me; R3 = R4 = H; R5 = H, Cl) give mixts. of II (R = Ph; R1 = Me, Et, PhCH2; R2, R3 = R4 = H; R5 = H, Cl) and III (R1 = Me, Et, PhCH2; R5 = H, Cl). N-(4-acylphenyl)methacrylamides IV (R6 = Me, EtO, Ph; R7 = H, Me; R8 = Me) undergo photocyclization to provide the acyldihydroquinolinones V (R6 = Me, EtO, Ph; R7 = H, Me; R8 = Me); N-(4-acylphenyl)acrylamides IV (R6 = EtO; R7 = H, Me; R8 = H) give no product. Mechanisms for the formation of II, III, and V are proposed. The crystal structures of I (R = Ph; R1 = R2 = Me; R3 = R4 = H; R5 = H) and of III (R1 = Me; R5 = H) are determined. The structure of I (R = Ph; R1 = R2 = Me; R3 = R4 = H; R5 = H) and restrictions on the conformation of I (R = Ph; R1 = R2 = Me; R3 = R4 = H; R5 = H) in acetonitrile solution at room temperature are related to the photochem. formation of III (R1 = Me; R5 = H); when the photocyclization of I (R = Ph; R1 = R2 = Me; R3 = R4 = H; R5 = H) is performed either in acetonitrile at 60° or in toluene (where the conformation restrictions on I are lessened), the fraction of III (R = Ph; R1 = R2 = Me; R3 = R4 = H; R5 = H) formed in the reaction decreases with little change in overall product yield.
- IT 175093-04-6P 849835-41-2P 849835-42-3P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (chemoselective photocyclization reactions of substituted
 N-(4-acylphenyl) propanamides to yield tetrahydroquinolinones)
- RN 175093-04-6 CAPLUS
 CN 6-Quinolinecarboxylic acid, 1,2,3,4-tetrahydro-3-methyl-2-oxo-, ethyl ester (CA INDEX NAME)

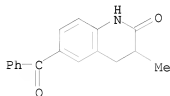


RN 849835-41-2 CAPLUS
 CN 2(1H)-Quinolinone, 6-acetyl-3,4-dihydro-3-methyl- (CA INDEX NAME)



RN 849835-42-3 CAPLUS

CN 2(1H)-Quinolinone, 6-benzoyl-3,4-dihydro-3-methyl- (CA INDEX NAME)



REFERENCE COUNT: 27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 18 OF 68 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2005:137055 CAPLUS

DOCUMENT NUMBER: 142:373663

TITLE: A convenient synthesis of quinolin-2(1H)-one ring system as precursor of active drugs

AUTHOR(S): Giuglio-Tonolo, Gamal; Terme, Thierry; Vanelle, Patrice

CORPORATE SOURCE: Laboratoire de Chimie Organique Pharmaceutique (LCOP), UMR CNRS 6517 Faculte de Pharmacie, Marseille, 13385, Fr.

SOURCE: Synlett (2005), (2), 251-254
CODEN: SYNLES; ISSN: 0936-5214

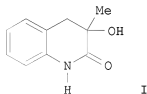
PUBLISHER: Georg Thieme Verlag

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 142:373663

GI



I

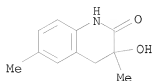
AB A series of substituted quinolin-2(1H)-ones, e.g., I, was prepared according to a two-step synthesis using TDAE methodol. from substituted o-nitrobenzyl chlorides followed by a reduction-cyclization step. The quinolinones were obtained in good yields.

IT 849403-22-1P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of hydroxy(dihydro)quinolinones via addition of nitrobenzyl chlorides to α -keto esters followed by reduction and cyclization)

RN 849403-22-1 CAPLUS

CN 2(1H)-Quinolinone, 3,4-dihydro-3-hydroxy-3,6-dimethyl- (CA INDEX NAME)



REFERENCE COUNT: 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 19 OF 68 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2004:258080 CAPLUS

DOCUMENT NUMBER: 141:314292

TITLE: Thermal rearrangement of 3-phenacylquinoxalones-2

AUTHOR(S): Kolos, N. N.; Berezkina, T. V.; Orlov, V. D.

CORPORATE SOURCE: Khar'kov. Nats. Univ. im. V. N. Karazina, Kharkov, 61077, Ukraine

SOURCE: Zhurnal Organichnoi ta Farmatsevtichnoi Khimii (2003), 1(1-2), 31-34

CODEN: ZOFKAM

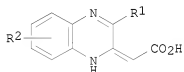
PUBLISHER: Natsional'nii Farmatsevtichnii Universitet

DOCUMENT TYPE: Journal

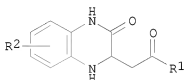
LANGUAGE: Russian

OTHER SOURCE(S): CASREACT 141:314292

GI



I



II

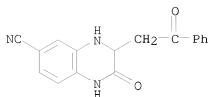
AB 2-Carboxymethylidene-3-aryl-1,2-dihydroquinoxalines I (R1 = Ph, 4-MeC6H4, 2-thienyl, R2 = H, 7-Cl; R1 = Ph, R2 = 6,7-Me2, 6-CN, 7-Cl) and unsubstituted quinoxalin-2-one were prepared by thermal rearrangement of 3-acylmethylidihydroquinoxalin-2-ones II in acetic acid or on heating above the m.p.; the direction of the reactions depends on the nature of the substituent in the quinoxaline aromatic ring. The thermodyn. characteristics of decomposition of II (R1 = Ph, R2 = H) were calculated and computer anal. of potential pharmacol. activity of some products was carried out.

IT 448959-30-6

RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of (carboxymethylidene)dihydroquinoxalines by thermal rearrangement of (acylmethyl)dihydroquinoxalinones)

RN 448959-30-6 CAPLUS

CN 6-Quinoxalinecarbonitrile, 1,2,3,4-tetrahydro-2-oxo-3-(2-oxo-2-phenylethyl)- (CA INDEX NAME)



L32 ANSWER 20 OF 68 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2003:867254 CAPLUS

DOCUMENT NUMBER: 140:141784

TITLE: Syntheses and binding affinities of 6-nitroquipazine analogues for serotonin transporter: Part 3. A potential 5-HT transporter imaging agent, 3-(3-[18F]fluoropropyl)-6-nitroquipazine

AUTHOR(S): Lee, Byoung Se; Chu, Soyoung; Lee, Kyo Chul; Lee, Bon-Su; Chi, Dae Yoon; Choe, Yearn Seong; Kim, Sang Eun; Song, Yun Seon; Jin, Changbae

CORPORATE SOURCE: Department of Chemistry, Inha University, Incheon, 402-751, S. Korea

SOURCE: Bioorganic & Medicinal Chemistry (2003), 11(23), 4949-4958

CODEN: BMECEP; ISSN: 0968-0896

PUBLISHER: Elsevier Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English

AB 3-(3-[18F]Fluoropropyl)-6-nitroquipazine ([18F]FPNQ) as a 5-HT transporter imaging agents was designed, synthesized, and evaluated. FPNQ was selected due to its potent in vitro biol. activity ($K_i=0.32$ nM) in rat brain cortical membranes. The 18F-labeled FPNQ was prepared by reaction of the Pr mesylate as a precursor with tetra-n-butylammonium [18F]fluoride generated under NCA conditions. The precursor mesylate was synthesized from com. available hydrocarbostyryl in nine steps in 21% overall yield. The specific activity of the [18F]FPNQ determined by radioreceptor assay was 27.0 GBq/ μ mol. Tissue distribution studies in mice showed the highest uptake in the frontal cortex (5.79 %ID/g) at 60 min post-injection.

IT 651315-43-4P 651315-44-5P 651315-45-6P

651315-46-7P 651315-47-8P 651315-51-4P

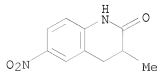
651315-52-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of nitroquipazine analogs as potential 5-HT transporter imaging agents)

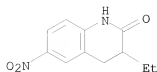
RN 651315-43-4 CAPLUS

CN 2(1H)-Quinolinone, 3,4-dihydro-3-methyl-6-nitro- (CA INDEX NAME)

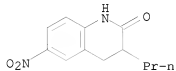


RN 651315-44-5 CAPLUS

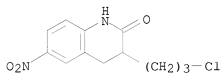
CN 2(1H)-Quinolinone, 3-ethyl-3,4-dihydro-6-nitro- (CA INDEX NAME)



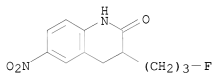
RN 651315-45-6 CAPLUS
 CN 2(1H)-Quinolinone, 3,4-dihydro-6-nitro-3-propyl- (CA INDEX NAME)



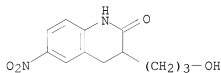
RN 651315-46-7 CAPLUS
 CN 2(1H)-Quinolinone, 3-(3-chloropropyl)-3,4-dihydro-6-nitro- (CA INDEX NAME)



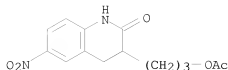
RN 651315-47-8 CAPLUS
 CN 2(1H)-Quinolinone, 3-(3-fluoropropyl)-3,4-dihydro-6-nitro- (CA INDEX NAME)



RN 651315-51-4 CAPLUS
 CN 2(1H)-Quinolinone, 3,4-dihydro-3-(3-hydroxypropyl)-6-nitro- (CA INDEX NAME)

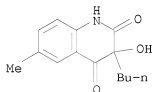


RN 651315-52-5 CAPLUS
 CN 2(1H)-Quinolinone, 3-[3-(acetyloxy)propyl]-3,4-dihydro-6-nitro- (CA INDEX NAME)



REFERENCE COUNT: 35 THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 21 OF 68 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2003:658581 CAPLUS
 DOCUMENT NUMBER: 139:364796
 TITLE: Thermal rearrangement of 3-hydroxy-1H,3H-quinoline-2,4-diones to 3-acyloxy-2,3-dihydro-1H-indol-2-ones
 AUTHOR(S): Klasek, Antonin; Koristek, Kamil; Kafka, Stanislav; Kosmrlj, Janez
 CORPORATE SOURCE: Faculty of Technology, Tomas Bata University, Zlin, 762 72, Czech Rep.
 SOURCE: Heterocycles (2003), 60(8), 1811-1820
 CODEN: HTCYAM; ISSN: 0385-5414
 PUBLISHER: Japan Institute of Heterocyclic Chemistry
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 139:364796
 AB 3-Alkyl/aryl-3-hydroxy-1H,3H-quinoline-2,4-diones were transformed into isomeric 3-acyloxy-2,3-dihydro-1H-indol-2-ones by thermally induced mol. rearrangement. All products were characterized by their 1H NMR, 13C NMR, and IR spectra.
 IT 266348-62-3P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (thermal rearrangement of 3-hydroxy-1H,3H-quinoline-2,4-diones to 3-acyloxy-2,3-dihydro-1H-indol-2-ones)
 RN 266348-62-3 CAPLUS
 CN 2,4(1H,3H)-Quinolinedione, 3-butyl-3-hydroxy-6-methyl- (CA INDEX NAME)



REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 22 OF 68 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2003:148483 CAPLUS
 DOCUMENT NUMBER: 139:69172
 TITLE: Synthesis of pyrrolo[3,4-c]quinolines by 1,5-electrocyclization of non-stabilized azomethine ylides
 AUTHOR(S): Pinter, Aron; Nyerges, Miklos; Viranyi, Andrea; Toke, Laszlo
 CORPORATE SOURCE: Department of Organic Chemical Technology, Research Group of the Hungarian Academy of Sciences, Technical University of Budapest, Budapest, H-1521, Hung.

SOURCE: Tetrahedron Letters (2003), 44(11), 2343-2346
 CODEN: TELEAY; ISSN: 0040-4039
 PUBLISHER: Elsevier Science Ltd.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 139:69172

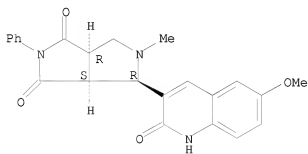
AB A new route to the pyrrolo[3,4-c]quinoline ring system was developed via the 1,5-dipolar electrocyclization reactions of azomethine ylides derived from easily available 3-formylquinoline derivs. The products thus obtained included 1,2,5,9b-tetrahydro-2-methyl-4H-pyrrolo[3,4-c]quinolin-4-one derivs. and 2-methyl-4-phenyl-2H-pyrrolo[3,4-c]quinoline derivs. The intermediacy of azomethine ylides was shown by the trapping of the proposed dipoles with N-phenylmaleimide.

IT 548794-79-2P 548794-82-7P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of pyrrolo[3,4-c]quinolines by 1,5-electrocyclization of non-stabilized azomethine ylides)

RN 548794-79-2 CAPLUS

CN Pyrrolo[3,4-c]pyrrole-1,3(2H,3aH)-dione, 4-(1,2-dihydro-6-methoxy-2-oxo-3-quinolinyl)tetrahydro-5-methyl-2-phenyl-, (3aR,4S,6aS)-rel- (CA INDEX NAME)

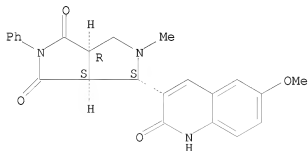
Relative stereochemistry.



RN 548794-82-7 CAPLUS

CN Pyrrolo[3,4-c]pyrrole-1,3(2H,3aH)-dione, 4-(1,2-dihydro-6-methoxy-2-oxo-3-quinolinyl)tetrahydro-5-methyl-2-phenyl-, (3aR,4R,6aS)-rel- (CA INDEX NAME)

Relative stereochemistry.



REFERENCE COUNT: 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

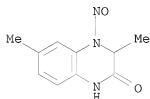
L32 ANSWER 23 OF 68 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2003:126821 CAPLUS

DOCUMENT NUMBER: 140:70560
 TITLE: Antiinflammatory and antinociceptive activities of some benzotriazolylalkanoic acids
 AUTHOR(S): Boido, Alessandro; Vazzana, Iana; Mattioli, Francesca; Sparatore, Fabio
 CORPORATE SOURCE: Dipartimento di Scienze Farmaceutiche, Universita di Genova, Genoa, I-16132, Italy
 SOURCE: Farmaco (2003), 58(1), 33-44
 CODEN: FRMCE8; ISSN: 0014-827X
 PUBLISHER: Editions Scientifiques et Medicales Elsevier
 DOCUMENT TYPE: Journal
 LANGUAGE: English

AB Sets of benzotriazol-1/2-yl-alkanoic acids (1, 2, 3) and benzotriazol-1-yloxyalkanoic acids (4, 5) were prepared and tested for antiinflammatory activity; when significant activity was observed also the antinociceptive activity was explored. While the acids of structure 1, 4 and 5 were devoid of antiinflammatory action, most 2-(benzotriazol-1/2-yl)propionic acids (2, 3) exhibited significant activity as antiinflammatory and antinociceptive agents, with compound 2c and 3a being the most active in the two assays, resp. The dextro-rotatory enantiomer of 2c ((+)-2c) was also prepared and found to be practically as active as the racemic mixture, though some differences in the steepness of the dose-response curves were observed

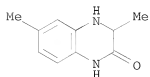
IT 639474-98-9P
 RL: PAC (Pharmacological activity); PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (benzotriazolylalkanoic acids preparation and antiinflammatory and analgesic action)

RN 639474-98-9 CAPLUS
 CN 2(1H)-Quinoxalinone, 3,4-dihydro-3,6-dimethyl-4-nitroso- (CA INDEX NAME)



IT 90917-92-3P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (benzotriazolylalkanoic acids preparation and antiinflammatory and analgesic action)

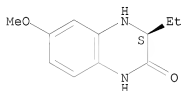
RN 90917-92-3 CAPLUS
 CN 2(1H)-Quinoxalinone, 3,4-dihydro-3,6-dimethyl- (CA INDEX NAME)



REFERENCE COUNT: 41 THERE ARE 41 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

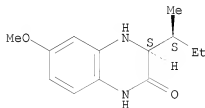
ACCESSION NUMBER: 2002:830853 CAPLUS
 DOCUMENT NUMBER: 138:73486
 TITLE: Application of ReactArray Robotics and Design of Experiments Techniques in Optimization of Supported Reagent Chemistry
 AUTHOR(S): Jamieson, Craig; Congreve, Miles S.; Emiabata-Smith, David F.; Ley, Steven V.; Scicinski, Jan J.
 CORPORATE SOURCE: Medicines Research Centre, GlaxoSmithKline R&D, Stevenage, Hertfordshire, SG1 2NY, UK
 SOURCE: Organic Process Research & Development (2002), 6(6), 823-825
 CODEN: OPRDFK; ISSN: 1083-6160
 PUBLISHER: American Chemical Society
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 138:73486
 AB The application of ReactArray automation together with Design of Expts. (DoE) techniques in optimizing chemical involving supported reagents is discussed.
 IT 178041-70-8P 479677-36-6P 479677-37-7P
 RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of amino acid derivs.; application of ReactArray robotics and design of expts. techniques in optimization of supported reagent chemical)
 RN 178041-70-8 CAPLUS
 CN 2(1H)-Quinoxalinone, 3-ethyl-3,4-dihydro-6-methoxy-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



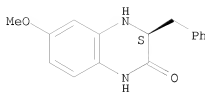
RN 479677-36-6 CAPLUS
 CN 2(1H)-Quinoxalinone, 3,4-dihydro-6-methoxy-3-[(1S)-1-methylpropyl]-, (3S)- (CA INDEX NAME)

Absolute stereochemistry.



RN 479677-37-7 CAPLUS
 CN 2(1H)-Quinoxalinone, 3,4-dihydro-6-methoxy-3-(phenylmethyl)-, (3S)- (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 25 OF 68 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2002:429780 CAPLUS

DOCUMENT NUMBER: 137:149792

TITLE: Prediction of Activity for Nonnucleoside Inhibitors with HIV-1 Reverse Transcriptase Based on Monte Carlo Simulations

AUTHOR(S): Rizzo, Robert C.; Udier-Blagovic, Marina; Wang, De-Ping; Watkins, Edward K.; Kroeger Smith, Marilyn B.; Smith, Richard H., Jr.; Tirado-Rives, Julian; Jorgensen, William L.

CORPORATE SOURCE: Western Maryland College, Department of Chemistry, and the Department of Chemistry, Yale University, New Haven, CT, 06520-8107, USA

SOURCE: Journal of Medicinal Chemistry (2002), 45(14), 2970-2987

PUBLISHER: CODEN: JMCMAR; ISSN: 0022-2623

DOCUMENT TYPE: American Chemical Society

LANGUAGE: Journal

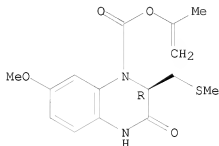
AB English

Results of Monte Carlo (MC) simulations for more than 200 nonnucleoside inhibitors of HIV-1 reverse transcriptase (NNRTIs) representing eight diverse chemotypes have been correlated with their anti-HIV activities in an effort to establish simulation protocols and methods that can be used in the development of more effective drugs. Each inhibitor was modeled in a complex with the protein and by itself in water, and potentially useful descriptors of binding affinity were collected during the MC simulations. A viable regression equation was obtained for each data set using an extended linear response approach, which yielded r^2 values between 0.54 and 0.85 and an average unsigned error of only 0.50 kcal/mol. The most common descriptors confirm that a good geometrical match between the inhibitor and the protein is important and that the net loss of hydrogen bonds with the inhibitor upon binding is unfavorable. Other phys. reasonable descriptors of binding are needed on a chemotype case-by-case basis. By including descriptors in common from the individual fits, combination regressions that include multiple data sets were also developed. This procedure led to a refined "master" regression for 210 NNRTIs with an r^2 of 0.60 and a cross-validated q^2 of 0.55. The computed activities show an rms error of 0.86 kcal/mol in comparison with experiment and an average unsigned error of 0.69 kcal/mol. Encouraging results were obtained for the predictions of 27 NNRTIs, representing a new chemotype not included in the development of the regression model. Predictions for this test set using the master regression yielded a q^2 value of 0.51 and an average unsigned error of 0.67 kcal/mol. Finally, addnl. regression anal. reveals that use of ligand-only descriptors leads to models with much diminished predictive ability.

IT 178041-10-6
 RL: PAC (Pharmacological activity); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (prediction of activity for nonnucleoside inhibitors with HIV-1 reverse

transcriptase based on Monte Carlo simulations)
 RN 178041-10-6 CAPLUS
 CN 1(2H)-Quinoxalinecarboxylic acid, 3,4-dihydro-7-methoxy-2-
 [(methylthio)methyl]-3-oxo-, 1-methylethenyl ester, (2R)- (CA INDEX NAME)

Absolute stereochemistry.

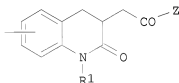


REFERENCE COUNT: 63 THERE ARE 63 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 26 OF 68 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2002:429548 CAPLUS
 DOCUMENT NUMBER: 137:20304
 TITLE: Phenyl-oxo-tetrahydroquinolin-3-yl as selective beta-3
 adrenergic receptor agonists
 INVENTOR(S): Coghlan, Richard Dale; Fobare, William Floyd
 PATENT ASSIGNEE(S): American Home Products Corporation, USA; Wyeth
 SOURCE: U.S. Pat. Appl. Publ., 15 pp.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20020068751	A1	20020606	US 2001-904116	20010712
US 6514991	B2	20030204		
PRIORITY APPLN. INFO.:			US 2000-218597P	P 20000717
OTHER SOURCE(S):	MARPAT 137:20304			

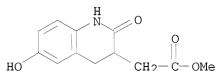
GI



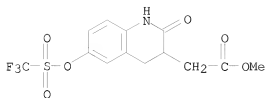
AB This invention provides compds. (I; AXCH(OH)CH2NHCH2C6H4B) or a pharmaceutically acceptable salt thereof, which are useful in treating or inhibiting metabolic disorders related to insulin resistance or hyperglycemia (typically associated with obesity or glucose intolerance), atherosclerosis, gastrointestinal disorders, neurogenic inflammation, glaucoma, ocular hypertension and frequent urination; and are particularly useful in the treatment or inhibition of type II diabetes. I are also useful for increasing the lean meat to fat ratio in a mammal in need

thereof. In I, A is (a) Ph, optionally substituted with 1-3 Y groups; (b) a 5- or 6-membered heterocyclic ring having 1-4 heteroatoms selected from O, N, and S, optionally substituted with 1-2 Y groups; (c) a phenyl-fused heterocycle having 1-4 heteroatoms selected from O, N, and S, optionally substituted with 1-2 Y groups; (d) a phenyl-fused heterocycle having 1-4 heteroatoms selected from O, N, and S, having a 2nd Ph ring fused to the heterocyclic ring, optionally substituted with 1-2 Y groups. B is shown as II. Y is hydroxy, halogen, cyano, S_{Om}R₂, S_{On}R₂R₃, NHSO₂R₂, NR₂R₃, alkyl of 1-10 C atoms, cycloalkyl of 3-8 C atoms, alkoxy of 1-10 C atoms, arylalkoxy, COR₂, or CO₂R₂. X is OCH₂ or a bond; Z is OR₂ or NR₂R₃; R₁ is H, alkyl of 1-6 C atoms, or cycloalkyl of 3-8 C atoms. R₂ and R₃ are each, independently, H; alkyl of 1-10 C atoms which may be optionally substituted with 1-5 substituents selected from the group consisting of halogen, hydroxy, Ph optionally substituted with 1-2 W groups, oxo, CO₂R₄, NR₄R₅, and NHCOR₄; cycloalkyl of 3-8 C atoms; arylalkyl having 1-10 C atoms in the alkyl moiety; or heterocycle or heterocycle-alkyl, where the alkyl moiety has 1-5 C atoms and the heterocycle is: (a) a 5- or 6-membered heterocyclic ring having 1-4 heteroatoms selected from O, N, and S, optionally substituted with 1-2 Y groups; (b) a phenyl-fused heterocycle having 1-4 heteroatoms selected from O, N, and S, optionally substituted with 1-2 Y groups; (c) a phenyl-fused heterocycle having 1-4 heteroatoms selected from O, N, and S, having a 2nd Ph ring fused to the heterocyclic ring, optionally substituted with 1-2 Y groups. R₄ and R₅ are each, independently, H, alkyl of 1-10 C atoms, or cycloalkyl of 3-8 C atoms; W is hydroxy, halogen, alkyl of 1-10 C atoms, arylalkoxy having 1-6 C atoms in the alkyl moiety, NHC(O)NHR₄, NR₄R₅, OR₄, COR₄, CO₂R₄, S_{Om}R₄, S_{On}R₄R₅; m = 0-2; n = 1-2. β 3-AR EC₅₀ and I_A (% activity compound/% activity isoproterenol) values are reported for 4 of the claimed compds. (e.g. 40.0 nM and 1.1, resp. for [7-[4-[(1,2,3,4-tetrahydro-6-hydroxy-2-oxo-6-methanesulfonylamino]phenyl)ethylamino]methyl]phenyl]-2-oxo-1,2,3,4-tetrahydroquinolin-3-yl)acetic acid Me ester). Although the methods of preparation are not claimed, 4 example preps. are included.

- IT 433926-85-3P, Methyl (1,2,3,4-tetrahydro-6-hydroxy-2-oxoquinolin-3-yl)acetate 433926-86-4P, Methyl (1,2,3,4-tetrahydro-2-oxo-6-((trifluoromethyl)sulfonyl)oxy)quinolin-3-yl)acetate
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (intermediate; for preparation of tetrahydroquinolinones useful as selective beta-3 adrenergic receptor agonists)
 RN 433926-85-3 CAPLUS
 CN 3-Quinoloneacetic acid, 1,2,3,4-tetrahydro-6-hydroxy-2-oxo-, methyl ester (CA INDEX NAME)



- RN 433926-86-4 CAPLUS
 CN 3-Quinoloneacetic acid, 1,2,3,4-tetrahydro-2-oxo-6-((trifluoromethyl)sulfonyl)oxy-, methyl ester (CA INDEX NAME)



L32 ANSWER 27 OF 68 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2002:408626 CAPLUS

DOCUMENT NUMBER: 136:401535

TITLE: Derivatives of 4-hydroxybutanoic acid and of its higher homologue as ligands of γ -hydroxybutyrate (GHB) receptors, pharmaceutical compositions containing same and pharmaceutical uses
INVENTOR(S): Bourguignon, Jean-Jacques; Maitre, Michel; Klotz, Evelyne; Schmitt, Martine; Gobaille, Serge; Macher, Jean-Paul

PATENT ASSIGNEE(S): Universite Louis Pasteur (Etablissement Public A Caractere Scientifique, Culturel Et Professionnel), Fr.

SOURCE: PCT Int. Appl., 81 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: French

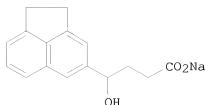
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002042250	A1	20020530	WO 2001-FR3615	20011116
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
FR 2817256	A1	20020531	FR 2000-15291	20001127
FR 2817256	B1	20050715		
AU 2002020792	A	20020603	AU 2002-20792	20011116
EP 1347950	A1	20031001	EP 2001-997471	20011116
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
US 20050113366	A1	20050526	US 2003-432692	20031124
PRIORITY APPLN. INFO.:			FR 2000-15291	A 20001127
			WO 2001-FR3615	W 20011116

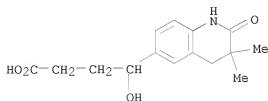
OTHER SOURCE(S): MARPAT 136:401535

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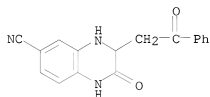
AB The invention concerns novel derivs. of 4-hydroxybutanoic acid and its higher homolog, 5-hydroxypentanoic acid, their crotonic homologs, pharmaceutical compns. containing them and their pharmaceutical uses. In particular, compds. Ar-(CH₂)_n-CH(OH)-X-W (I) are claimed [wherein: Ar = certain (un)substituted mono-, bi-, and tricyclic aromatic and heteroarom. ring systems; n = 0 or 1; X = (CH₂)₂, (CH₂)₃, or trans-CH:CH; W = CO₂H or pharmaceutically acceptable salt, CH₂OH, alkoxycarbonyl, SO₃H, PO₃H₂, tetrazol-5-yl, N-(2,6-dimethylphenylsulfonyl)carbamoyl, CONR⁷R⁸, CO₂CHR⁹CO₂R¹⁰; R⁷, R⁸ = H, alkyl, aryl, aralkyl, or OH; R⁹ = H, Me; R¹⁰ = Et, C₁₂H₁₅, or adamantyl]. I are capable of binding with γ-hydroxybutyrate (GHB)-specific receptors, and are capable of exhibiting agonist or antagonist properties. The compds. are potentially useful for treating a wide variety of conditions. In particular, I are useful for treating sleep disorders, anxiety, and general diseases of the central nervous system. Over 40 compds. were prepared. Preps. generally involved production of 4-(hetero)aryl-4-oxobutanoate esters by different routes, followed by borohydride reduction of the ketone, hydrolysis of the ester, and salification. Compds. I displaced 3H-GHB from rat brain GHB receptors in vitro with IC₅₀ values ranging from 34.2 μM to 0.08 μM (the latter for compound II). In an EEG test in rats, II gave a 23-28% increase in the duration of slow wave sleep (SWS) at doses of 0.15-0.28 μmol/kg i.p.

IT 430440-65-6P, 4-(3,3-Dimethyl-2-oxo-1,2,3,4-tetrahydroquinolin-6-yl)-4-hydroxybutanoic acid sodium salt
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (drug candidate; preparation of aryl and heteroaryl hydroxybutanoic acid derivs. and homologs as GHB receptor agonists and antagonists)
 RN 430440-65-6 CAPLUS
 CN 6-Quinolinebutanoic acid, 1,2,3,4-tetrahydro-γ-hydroxy-3,3-dimethyl-2-oxo-, monosodium salt (9CI) (CA INDEX NAME)

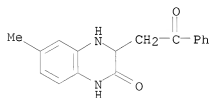


REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

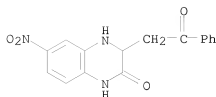
ACCESSION NUMBER: 2002:283030 CAPLUS
 DOCUMENT NUMBER: 137:169472
 TITLE: The reaction of benzoylacrylic acid with
 ortho-phenylenediamines
 AUTHOR(S): Kolos, N. N.; Tishchenko, A. A.; Orlov, V. D.;
 Berezkina, T. V.; Shishkina, S. V.; Shishkin, O. V.
 CORPORATE SOURCE: V. N. Karazin National University, Kharkov, 61077,
 Ukraine
 SOURCE: Chemistry of Heterocyclic Compounds (New York, NY,
 United States)(Translation of Khimiya
 Geterotsiklicheskikh Soedinenii) (2001), 37(10),
 1289-1295
 CODEN: CHCCAL; ISSN: 0009-3122
 PUBLISHER: Kluwer Academic/Consultants Bureau
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 137:169472
 AB The reaction of β -benzoylacrylic acid with substituted
 o-phenylenediamines gives substituted quinoxal-2-ones. The structure of
 one of the products, 3-phenacylquinoxal-2-one, which was produced in 61%
 yield, was proved using x-ray anal.
 IT 448959-30-6P 448959-34-0P 448959-36-2P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 448959-30-6 CAPLUS
 CN 6-Quinoxalinecarbonitrile, 1,2,3,4-tetrahydro-2-oxo-3-(2-oxo-2-
 phenylethyl)- (CA INDEX NAME)



RN 448959-34-0 CAPLUS
 CN 2(1H)-Quinoxalinone, 3,4-dihydro-6-methyl-3-(2-oxo-2-phenylethyl)- (CA
 INDEX NAME)

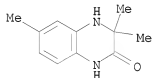


RN 448959-36-2 CAPLUS
 CN 2(1H)-Quinoxalinone, 3,4-dihydro-6-nitro-3-(2-oxo-2-phenylethyl)- (CA
 INDEX NAME)

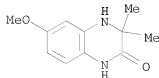


REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 29 OF 68 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2002:185847 CAPLUS
 DOCUMENT NUMBER: 136:369684
 TITLE: A Novel Palladium-Catalyzed Synthesis of
 1,2-Dihydroquinoxalines and 3,4-Dihydroquinoxalinones
 AUTHOR(S): Soederberg, Bjoern C. G.; Wallace, Jeffery M.;
 Tamariz, Joaquin
 CORPORATE SOURCE: Department of Chemistry, West Virginia University,
 Morgantown, WV, 26506-6045, USA
 SOURCE: Organic Letters (2002), 4(8), 1339-1342
 CODEN: ORLEF7; ISSN: 1523-7060
 PUBLISHER: American Chemical Society
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 136:369684
 AB Reactions of enamines, derived from 2-nitroanilines and
 α -substituted aldehydes, with carbon monoxide (6 atm) in the
 presence of a catalytic amount of bis(dibenzylideneacetone)palladium(0)
 (Pd(dba)₂) and 1,3-bis(diphenylphosphino)propane (dppp) afford readily
 separated mixts. of 1,2-dihydroquinoxalines and 3,4-dihydroquinoxalinones.
 Addition of a catalytic amount of 1,10-phenanthroline to the reaction mixture
 substantially improved the yield of products.
 IT 81016-65-1P 146739-29-9P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (reaction of enamines with carbon monoxide catalyzed by
 bis(dibenzylideneacetone)palladium)
 RN 81016-65-1 CAPLUS
 CN 2(1H)-Quinoxalinone, 3,4-dihydro-3,3,6-trimethyl- (CA INDEX NAME)



RN 146739-29-9 CAPLUS
 CN 2(1H)-Quinoxalinone, 3,4-dihydro-6-methoxy-3,3-dimethyl- (CA INDEX NAME)



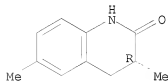
REFERENCE COUNT: 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 30 OF 68 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2002:71158 CAPLUS
DOCUMENT NUMBER: 136:278990
TITLE: Enantioselective photocyclization of p-toluidides of α,β -unsaturated carboxylic acids in solution. A mechanistic and preparative study
AUTHOR(S): Formentin, Pilar; Sabater, Maria J.; Chretien, Michelle N.; Garcia, Hermenegildo; Scaiano, Juan C.
CORPORATE SOURCE: Instituto de Tecnologia Quimica CSIC-UPV, Universidad Politecnica de Valencia, Valencia, 46071, Spain
SOURCE: Journal of the Chemical Society, Perkin Transactions 2 (2002), (1), 164-167
CODEN: JCSPGI; ISSN: 1472-779X
PUBLISHER: Royal Society of Chemistry
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 136:278990

AB Photolysis of p-toluidides of methacrylic (1a) and 1-cyclohexene-1-carboxylic (1b) acids in nitrogen-saturated cyclopentane solution yields the corresponding 2-quinolones with over 90% chemoselectivity at almost complete conversion. In the presence of substoichiometric amts. (0.1 equiv) of chiral inductor, low to moderate enantiomeric excesses (ee) are observed in the photo-product. Ephedrine gave the highest ee (37% ee for the photocyclization of 1a) in a series of 11 chiral inductors including alcs., amines, aminoalcs., α -amino and α -hydroxy acids. In the case of the irradiation of 1b in the presence of chiral inductors, both diastereo- and enantioselectivity were observed. A weakly absorbing transient species (λ_{max} 400 nm) was detected following 308 nm laser excitation and was assigned to the zwitterionic enolate intermediate resulting immediately after the concerted electrocyclic ring closure. The lifetime of this intermediate is unaffected by oxygen but is quenched by trifluoroacetic acid ($k_q = 3.76 \times 10^7 \text{ M}^{-1} \text{ s}^{-1}$) and ephedrine ($k_q = 1.19 \times 10^7 \text{ M}^{-1} \text{ s}^{-1}$).

IT 405937-28-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
(mechanistic and preparative study of enantioselective photocyclization of p-toluidides of α,β -unsatd. carboxylic acids in solution)
RN 405937-28-2 CAPLUS
CN 2(1H)-Quinolinone, 3,4-dihydro-3,6-dimethyl-, (3R)- (CA INDEX NAME)

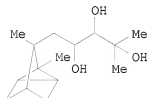
Absolute stereochemistry.



REFERENCE COUNT: 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 31 OF 68 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2001:897296 CAPLUS
DOCUMENT NUMBER: 136:147846
TITLE: A new sesquiterpene, α -santalane-11,12,13-triol from the root bark of *Severinia buxifolia* in Hainan

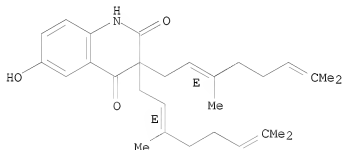
AUTHOR(S): Chen, Chien-Mao; Lin, Fu-Wen; Kuo, Ping-Chung; Shi, Li-Shian; Wang, Jhi-Joung; Wu, Tian-Shung
 CORPORATE SOURCE: Department of Chemistry, National Cheng Kung University, Tainan, Taiwan
 SOURCE: Journal of the Chinese Chemical Society (Taipei, Taiwan) (2001), 48(5), 933-936
 CODEN: JCCTAC; ISSN: 0009-4536
 PUBLISHER: Chinese Chemical Society
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI



I

AB A new sesquiterpenoid, α -santalane-11,12,13-triol (I), together with thirty known compds. were isolated and characterized from the root bark of *Severinia buxifolia* in Hainan. Their structures were determined by spectroscopic methods. The relationship between constituents and collecting area is also discussed.
 IT 219998-24-0, Severibuxine
 RL: BSU (Biological study, unclassified); BIOL (Biological study) (from *Severinia buxifolia*)
 RN 219998-24-0 CAPLUS
 CN 2,4(1H,3H)-Quinolinedione, 3,3-bis[(2E)-3,7-dimethyl-2,6-octadienyl]-6-hydroxy- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

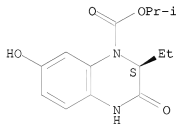


REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 32 OF 68 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2001:244781 CAPLUS
 DOCUMENT NUMBER: 135:55436
 TITLE: Formation of a defluorinated metabolite of a quinoxaline antiviral drug catalysed by human cytochrome P450 1A2
 AUTHOR(S): Mutch, Peter J.; Dear, Gordon J.; Ismail, Issy M.
 CORPORATE SOURCE: Division of Bioanalysis and Drug Metabolism, Glaxo Wellcome Research and Development, Ware, SG12 0DP, UK

SOURCE: Journal of Pharmacy and Pharmacology (2001), 53(3), 403-408
 PUBLISHER: CODEN: JPPMAB; ISSN: 0022-3573
 DOCUMENT TYPE: Pharmaceutical Press
 LANGUAGE: Journal
 English
 AB The in-vitro metabolism of GW420867X ((S)-2-ethyl-7-fluoro-3-oxo-3,4-dihydro-2H-quinoxaline-1-carboxylic acid iso-Pr ester), a quinoxaline drug for the potential treatment of HIV, has been studied with singly expressed human cytochromes P 450 (CYP 450). No biotransformation of [14C]GW420867X was evident in the presence of any of the CYP 450 isoforms, with the exception of CYP 450 1A2, where a single metabolite was observed in the HPLC radiochromatograms of enzyme incubations with the test compound. The structure of this metabolite was determined by NMR spectroscopy and mass spectrometry, and was shown to correspond to the replacement of the aromatic fluorine of GW420867X with a hydroxyl group. Thus, it appeared that CYP 450 1A2 catalyzed the specific defluorination of GW420867X, presumably during formation of an arene oxide intermediate during aromatic hydroxylation.
 IT 178041-13-9
 RL: BPR (Biological process); BSU (Biological study, unclassified); MFM (Metabolic formation); BIOL (Biological study); FORM (Formation, nonpreparative); PROC (Process)
 (formation of a defluorinated metabolite of a quinoxaline antiviral drug catalyzed by human cytochrome P 450 1A2)
 RN 178041-13-9 CAPLUS
 CN 1(2H)-Quinoxalinecarboxylic acid, 2-ethyl-3,4-dihydro-7-hydroxy-3-oxo-, 1-methylethyl ester, (2S)- (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 33 OF 68 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2000:618377 CAPLUS
 DOCUMENT NUMBER: 133:290626
 TITLE: Urinary metabolites of a novel quinoxaline non-nucleoside reverse transcriptase inhibitor in rabbit, mouse and human: identification of fluorine NIH shift metabolites using NMR and tandem MS
 AUTHOR(S): Dear, G. J.; Ismail, I. M.; Mutch, P. J.; Plumb, R. S.; Davies, L. H.; Sweatman, B. C.
 CORPORATE SOURCE: International Development, Bioanalysis and Drug Metabolism Division, Glaxo Wellcome Research and Development, Ware, SG12 0DP, UK
 SOURCE: Xenobiotica (2000), 30(4), 407-426
 CODEN: XENOBH; ISSN: 0049-8254
 PUBLISHER: Taylor & Francis Ltd.
 DOCUMENT TYPE: Journal
 LANGUAGE: English

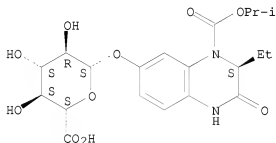
AB 1. The urinary metabolites of (S)-2-ethyl-7-fluoro-3-oxo-3,4-dihydro-2H-quinoxaline-carboxylic acid isopropylester (GW420867X) have been investigated in samples obtained following oral administration to rabbit, mouse and human. GW420867X underwent extensive biotransformation to form hydroxylated metabolites and glucuronide conjugates on the aromatic ring, and on the Et and iso-Pr side-chains in all species. In rabbit urine, a minor metabolite was detected and characterized as a cysteine adduct that was not observed in mouse or man. 2. The hydroxylated metabolites and corresponding glucuronide conjugates were isolated by semi-preparative HPLC and characterized using NMR, LC-NMR and LC-MS/MS. The relative proportions of fluorine-containing metabolites were determined in animal species by ¹⁹F-NMR signal integration. 3. The fluorine atom of the aromatic ring underwent NIH shift rearrangement in the metabolites isolated and characterized in rabbit, mouse and human urine. 4. The characterization of the NIH shift metabolites in urine enabled the detection and confirmation of the presence of these metabolites in human plasma.

IT 234448-19-2P
 RL: BSU (Biological study, unclassified); MFM (Metabolic formation); PUR (Purification or recovery); BIOL (Biological study); FORM (Formation, nonpreparative); PREP (Preparation)
 (identification of urinary metabolites of a novel quinoxaline non-nucleoside reverse transcriptase inhibitor (GW420867X) in rabbit, mouse and human by using NMR and tandem MS)

RN 234448-19-2 CAPLUS

CN β-D-Glucopyranosiduronic acid, (3S)-3-ethyl-1,2,3,4-tetrahydro-4-[(1-methylethoxy)carbonyl]-2-oxo-6-quinoxaliny (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 30 THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 34 OF 68 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2000:496110 CAPLUS

DOCUMENT NUMBER: 133:261082

TITLE: The design and synthesis of thrombin inhibitors: the introduction of in vivo efficacy and oral bioavailability into benzthiazolylalanine inhibitors

AUTHOR(S): Hayler, J.; Kane, P. D.; LeGrand, D.; Lugrin, F.; Menear, K.; Price, R.; Allen, M.; Cockcroft, X.; Ambler, J.; Butler, K.; Dunnet, K.; Mitchelson, A.; Talbot, M.; Tweed, M.; Wills, N.

CORPORATE SOURCE: Novartis Horsham Research Centre, Horsham, West Sussex, RH12 4AB, UK

SOURCE: Bioorganic & Medicinal Chemistry Letters (2000), 10(14), 1567-1570

CODEN: BMCLE8; ISSN: 0960-894X

PUBLISHER: Elsevier Science Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The further optimization of the novel lead compound CGH752 is described. By introducing various substituents into the 6-position of the 3,3-dimethyltetrahydroquinoline (DMTHQS) ring we have been able to favorably affect the in vitro and in vivo activity, and the pharmacokinetics of such compds. One of the inhibitors synthesized, CGH1484 is bioavailable and shows efficacy in animal models of thrombosis.

IT 184041-58-5P 184041-62-1P 184041-89-2P

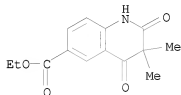
202465-00-7P 296242-11-0P 296242-12-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and thrombin-inhibitory structure activity relations of benzthiazolylalanine analogs and bioavailability and efficacy in animal models of thrombosis)

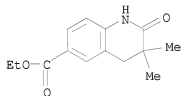
RN 184041-58-5 CAPLUS

CN 6-Quinolincarboxylic acid, 1,2,3,4-tetrahydro-3,3-dimethyl-2,4-dioxo-, ethyl ester (CA INDEX NAME)



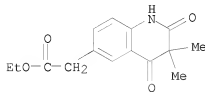
RN 184041-62-1 CAPLUS

CN 6-Quinolincarboxylic acid, 1,2,3,4-tetrahydro-3,3-dimethyl-2-oxo-, ethyl ester (CA INDEX NAME)



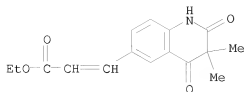
RN 184041-89-2 CAPLUS

CN 6-Quinolincacetic acid, 1,2,3,4-tetrahydro-3,3-dimethyl-2,4-dioxo-, ethyl ester (CA INDEX NAME)

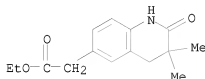


RN 202465-00-7 CAPLUS

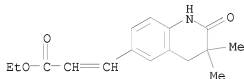
CN 2-Propenoic acid, 3-(1,2,3,4-tetrahydro-3,3-dimethyl-2,4-dioxo-6-quinolinyl)-, ethyl ester (CA INDEX NAME)



RN 296242-11-0 CAPLUS
 CN 6-Quinoloneacetic acid, 1,2,3,4-tetrahydro-3,3-dimethyl-2-oxo-, ethyl ester (CA INDEX NAME)



RN 296242-12-1 CAPLUS
 CN 2-Propenoic acid, 3-(1,2,3,4-tetrahydro-3,3-dimethyl-2-oxo-6-quinolinyl)-, ethyl ester (CA INDEX NAME)



REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 35 OF 68 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1999:667015 CAPLUS

DOCUMENT NUMBER: 132:8685

TITLE: Urinary metabolites of a novel quinoxaline nonnucleoside reverse transcriptase inhibitor in dog, cynomolgus monkey and mini-pig

AUTHOR(S): Ismail, I. M.; Dear, G. J.; Mutch, P. J.; Davies, L. H.; Plumb, R. S.; Sweatman, B. C.

CORPORATE SOURCE: Glaxo Wellcome Research and Development, International Development BioMet, Ware, SG12 0DP, UK

SOURCE: Xenobiotica (1999), 29(9), 957-967

CODEN: XENOBH; ISSN: 0049-8254

PUBLISHER: Taylor & Francis Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The metabolism of (S)-2-ethyl-7-fluoro-3-oxo-3,4-dihydro-2H-quinoxaline-carboxylic acid isopropylester (GW420867X) has been investigated following oral administration to dog, cynomolgus monkey and mini-pig. The urinary metabolites were isolated and characterized using semi-preparative HPLC, NMR and LC-MS/MS. The relative proportions of fluorine-containing metabolites were determined for each species by ¹⁹F-NMR signal integration. The metabolite profiles for each species were similar, although the proportion of individual components varied, suggesting that similar metabolic pathways

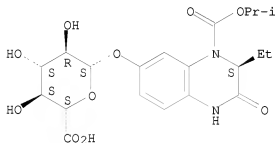
are involved in the biotransformation of GW420867X in the species studied. The urinary metabolites indicated that the major routes of biotransformation included hydroxylation and subsequent glucuronic acid conjugation on the aromatic ring, and on the Et and iso-Pr side chains. A component was observed in mini-pig urine that corresponded to hydroxylation and glucuronidation accompanied by loss of the fluorine atom.

IT 234448-19-2
RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); BSU (Biological study, unclassified); MFM (Metabolic formation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); FORM (Formation, nonpreparative); PROC (Process); USES (Uses)
(urinary metabolites of GW420867X in dog, cynomolgus monkey and mini-pig)

RN 234448-19-2 CAPLUS

CN β -D-Glucopyranosiduronic acid, (3S)-3-ethyl-1,2,3,4-tetrahydro-4-[(1-methylethoxy)carbonyl]-2-oxo-6-quinoxaliny (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 36 OF 68 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1999:348465 CAPLUS

DOCUMENT NUMBER: 131:124853

TITLE: The use of preparative high-performance liquid chromatography with tandem mass spectrometric directed fraction collection for the isolation and characterization of drug metabolites in urine by nuclear magnetic resonance spectroscopy and liquid chromatography/sequential mass spectrometry

AUTHOR(S): Plumb, R. S.; Ayrton, J.; Dear, G. J.; Sweatman, B. C.; Ismail, I. M.

CORPORATE SOURCE: International Development Support, BioMet, Glaxo Wellcome Research and Development, Herts, SG12 0DJ, UK

SOURCE: Rapid Communications in Mass Spectrometry (1999), 13(10), 845-854

CODEN: RCMSEF; ISSN: 0951-4198

PUBLISHER: John Wiley & Sons Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Preparative HPLC coupled to tandem mass spectrometry has been used successfully for the isolation of several drug metabolites from urine. NMR spectroscopy has been employed to determine the exact chemical structure of these metabolites. The use of preparative HPLC has allowed the isolation of relatively large quantities of drug metabolites (>0.5 mg) allowing insensitive, information-rich NMR expts. such as NOE, HMBC and HMQC to be performed. The coupling of the ion-trap mass spectrometer, operating in automatic MS/MS mode, to preparative HPLC allows the simultaneous collection and mass spectrometric anal. of eluting analytes to be

performed, thus allowing the position of fractions containing drug-related material to be identified very rapidly.

IT 234448-19-2

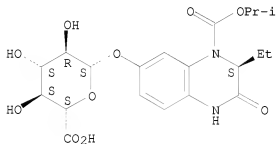
RL: ANT (Analyte); ANST (Analytical study)

(adaptation of preparative HPLC with tandem mass spectrometric directed fraction collection for qual. anal. of drug metabolites in urine by NMR spectroscopy and liquid chromatog./sequential mass spectrometry)

RN 234448-19-2 CAPLUS

CN β -D-Glucopyranosiduronic acid, (3S)-3-ethyl-1,2,3,4-tetrahydro-4-[(1-methylethoxy)carbonyl]-2-oxo-6-quinoxaliny (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 37 OF 68 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1998:785066 CAPLUS

DOCUMENT NUMBER: 130:136592

TITLE: Severibuxine, a new quinoline-2,4-dione and other constituents from *Severinia buxifolia*

AUTHOR(S): Wu, Tian-Shung; Leu, Yann-Lii; Chan, Yu-Yi; Lin, Fui-Wen; Li, Chia-Ying; Shi, Li-Shian; Kuo, Shang-Chu; Chen, Chieh-Fu; Wu, Yang-Chang

CORPORATE SOURCE: Department of Chemistry, Cheng Kung University, Tainan, 710, Taiwan

SOURCE: *Phytochemistry* (1998), 49(5), 1467-1470

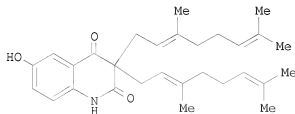
CODEN: PYTCAS; ISSN: 0031-9422

PUBLISHER: Elsevier Science Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English

GI



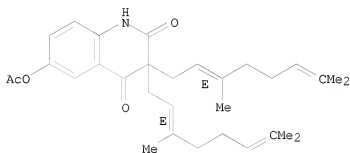
I

AB A new quinolin-2,4-dione alkaloid, severibuxine (I), together with 23 known compds. were isolated from the root bark of *Severinia buxifolia*. The structure of these compds. were determined by spectral and chemical methods.

Most of them showed cytotoxic activity against P-388.

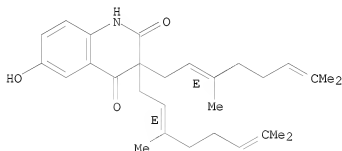
IT 219998-25-1P, Severibuxine acetate
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(isolation of severibuxine, a quinoline-2,4-dione alkaloid, and other
constituents from *Severinia buxifolia*)
RN 219998-25-1 CAPLUS
CN 2,4(1H,3H)-Quinolinedione, 6-(acetyloxy)-3,3-bis[(2E)-3,7-dimethyl-2,6-
octadienyl]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



IT 219998-24-0P, Severibuxine
RL: BAC (Biological activity or effector, except adverse); BOC (Biological
occurrence); BSU (Biological study, unclassified); PRP (Properties); PUR
(Purification or recovery); RCT (Reactant); BIOL (Biological study); OCCU
(Occurrence); PREP (Preparation); RACT (Reactant or reagent)
(isolation of severibuxine, a quinolinedione alkaloid, and other
constituents from *Severinia buxifolia*)
RN 219998-24-0 CAPLUS
CN 2,4(1H,3H)-Quinolinedione, 3,3-bis[(2E)-3,7-dimethyl-2,6-octadienyl]-6-
hydroxy- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

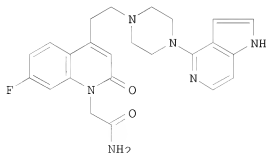
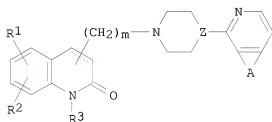


REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 38 OF 68 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1998:672552 CAPLUS
DOCUMENT NUMBER: 129:275934
TITLE: Quinolin-2(1H)-one and dihydroquinolin-2(1H)-one
derivatives as ligands of 5-HT, 5-HT2 and 5-HT1-like
receptors
INVENTOR(S): McCort, Gary; Hoornaert, Christian; Cadilhac,
Caroline; Duclos, Olivier; Guilpain, Eric
PATENT ASSIGNEE(S): Synthelabo, Fr.

SOURCE: PCT Int. Appl., 89 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

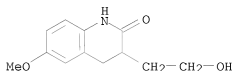
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9842712	A1	19981001	WO 1998-FR528	19980317
W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW			
RW:	GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
FR 2761071	A1	19980925	FR 1997-3387	19970320
FR 2761071	B1	19991203		
AU 9869239	A	19981020	AU 1998-69239	19980317
EP 971928	A1	20000119	EP 1998-914928	19980317
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, FI			
ZA 9802362	A	19980923	ZA 1998-2362	19980319
IN 1998CA00452	A	20051202	IN 1998-CA452	19980319
PRIORITY APPLN. INFO.:			FR 1997-3387	A 19970320
			WO 1998-FR528	W 19980317
OTHER SOURCE(S):	MARPAT 129:275934			
GI				



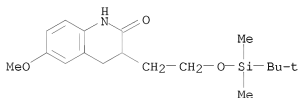
AB The invention concerns compds. I [dashed line = single or double bond; major sidechain is in position 3 or 4; Z = N or CH; R1, R2 = H, halo, amino, OH, NO2, cyano, (C1-6) alkyl, (C1-6) alkoxy, CF3, CF3O, COOH, COOR4, CONH2, CONHR4, CONR4R5, SR4, SO2R4, NHCOR4, NHSO2R4, N(R4)2; R3 =

H, (C1-4) alkyl, (CH2)pOH, (CH2)pNH2, (CH2)nCOOH, (CH2)nCOOR4, (CH2)nCN, (CH2)n-tetrazolyl, (CH2)nCONH2, (CH2)nCONHOH, (CH2)pSH, (CH2)nSO3H, (CH2)nSO2NH2, (CH2)nSO2NHR4, (CH2)nSO2NR4R5, (CH2)nCONHR4, (CH2)nCONR4R5, (CH2)pNHSO2R4, (CH2)pNHCOR4, (CH2)pOCOR4; R4, R5 = (C1-4) alkyl; m = 2-4; n = 1-4; p = 2-4; A = optional (un)substituted benzo or hetero fusion; with provisos] and salts. The compds. are antagonists of serotonergic receptors, notably 5-HT2 or 5-HT1-like subtypes. The invention is thereby applicable in therapeutics, particularly for treatment or prevention of cardiovascular pathologies such as ischemias, angina, thromboses, atherosclerosis, various hypertension, and vasospasms. For instance, 4-(2-chloroethyl)-7-fluoro-2-oxo-1,2-dihydroquinoline-1-acetamide (prepared in 6 steps) was coupled with 4-(piperazin-1-yl)-1H-pyrrolo[3,2-c]pyridine (prepared in 8 steps) using NaHCO3 and KI in MeCN-DMF mixture at 70°, followed by acidification with HCl in Et2O, to give title compound II.2HCl in 64% yield. In a test for inhibition of [3H]-spiroperidol specific binding to rat cerebral 5-HT2 receptors in vitro, I had IC50 values of < 1 μM.

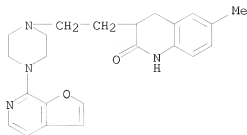
IT 190203-90-8P 214045-69-9P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (intermediate; preparation of piperazinylalkyl quinolinone and dihydroquinolinone derivs. as serotonergic antagonists)
 RN 190203-90-8 CAPLUS
 CN 2(1H)-Quinolinone, 3,4-dihydro-3-(2-hydroxyethyl)-6-methoxy- (CA INDEX NAME)



RN 214045-69-9 CAPLUS
 CN 2(1H)-Quinolinone, 3-[2-[(1,1-dimethylethyl)dimethylsilyl]oxy]ethyl]-3,4-dihydro-6-methoxy- (CA INDEX NAME)

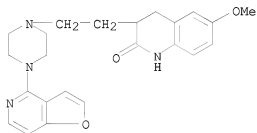


IT 214044-86-7P 214044-87-8P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of piperazinylalkyl quinolinone and dihydroquinolinone derivs. as serotonergic antagonists)
 RN 214044-86-7 CAPLUS
 CN 2(1H)-Quinolinone, 3-[2-(4-furo[2,3-c]pyridin-7-yl-1-piperazinyl)ethyl]-3,4-dihydro-6-methyl-, dihydrochloride (9CI) (CA INDEX NAME)



● 2 HCl

RN 214044-87-8 CAPLUS
 CN 2(1H)-Quinolinone, 3-[2-(4-furo[3,2-c]pyridin-4-yl-1-piperazinyl)ethyl]-
 3,4-dihydro-6-methoxy-, dihydrochloride (9CI) (CA INDEX NAME)



● 2 HCl

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 39 OF 68 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1998:320754 CAPLUS

DOCUMENT NUMBER: 129:54343

TITLE: Optically active α -hydroxy- α -
 (tetrahydroquinoxalin-3-on-2-yl) esters by ring
 transformation of (R,R)-diethyl oxirane-2,3-
 dicarboxylate

AUTHOR(S): Woydowski, Karsten; Ziemer, Burkhardt; Liebscher,
 Jurgon

CORPORATE SOURCE: Institut fur Chemie, Humboldt-Universitat Berlin,
 Berlin, D-10115, Germany

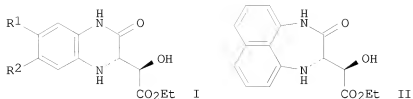
SOURCE: Tetrahedron: Asymmetry (1998), 9(7), 1231-1237
 CODEN: TASYE3; ISSN: 0957-4166

PUBLISHER: Elsevier Science Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English

GI



AB The reaction of (R,R)-diethyl oxirane-2,3-dicarboxylate with o-phenylenediamines and 1,8-diaminonaphthalene gave optically active (2R,2'S)-quinoxalinyllacetates (I; R1 = H, Me, MeO; R2 = H, Me, NO2, CF3) and (2R,2'S)-naphthodiazepinyllacetate II, resp., in a regio- and stereoselective manner. The regiochem. of the reactions with o-phenylenediamines was discussed. Together with previous investigations in this field the present results demonstrate a dependence of the mode of the reaction of glycidates with o-phenylenediamines on the substituents on the glycidate.

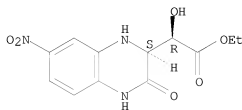
IT 208448-98-0P 208448-99-1P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 208448-98-0 CAPLUS

CN 2-Quinoxalineacetic acid, 1,2,3,4-tetrahydro- α -hydroxy-7-nitro-3-oxo-, ethyl ester, (α R,2S)- (CA INDEX NAME)

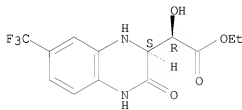
Absolute stereochemistry. Rotation (+).



RN 208448-99-1 CAPLUS

CN 2-Quinoxalineacetic acid, 1,2,3,4-tetrahydro- α -hydroxy-3-oxo-7-(trifluoromethyl)-, ethyl ester, (α R,2S)- (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



REFERENCE COUNT:

4

THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 40 OF 68 CAPLUS COPYRIGHT 2008 ACS on STN

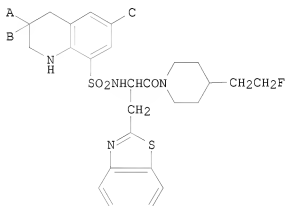
ACCESSION NUMBER: 1998:129595 CAPLUS

DOCUMENT NUMBER: 128:140693

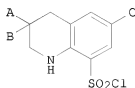
TITLE: Preparation of N-(α -carboxy- α -

benothiazolylmethyl)tetrahydroquinolinesulfonamides as inhibitors of trypsin and thrombin
 INVENTOR(S): Brundish, Derek Edward; Kane, Peter Daniel; Walker, Clive Victor; Menear, Keith Allan; Le Grand, Darren Mark; Allen, Mark Christopher; Hayler, Judy D.; Herold, Peter; Butler, Paul Ian; Fullerton, Joseph Dawson; Smith, Garrick Paul; Wathey, William Bernard; Cockcroft, Xiao-Ling; Hatto, Julia Doris Ida
 PATENT ASSIGNEE(S): Ciba-Geigy A.-G., Switz.
 SOURCE: Brit. UK Pat. Appl., 86 pp.
 CODEN: BAXXDU
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 2312674	A	19971105	GB 1996-9187	19960502
PRIORITY APPLN. INFO.: OTHER SOURCE(S): GI	MARPAT 128:140693		GB 1996-9187	19960502



I



II

AB Compds. of the general formula (I; A, B = H, a C1-5 alkyl which may be interrupted by one or more oxygen atoms, C1-5 alkenyl, alkoxyalkyl, hydroxyalkyl, alkylthioalkyl, alkylamino, dialkylamino or trialkylamino, or together form a methylene group, or together with the carbon atom to which they are attached form a C1-7 carboxylic ring; C = a group -R-X in which R is a C1-4 alkylene group optionally interrupted by oxygen or is a direct bond; X = an aminocarbonyl, carbonylamino, sulfonylamino, amino, azido or heterocyclic alkyl, or salts thereof) and their novel intermediates thereof (II; A, B, C = same as above) are prepared. They are potent and orally bioavailable inhibitors of serine protease, especially trypsin and thrombin, and are useful for the treatment and prophylaxis of various diseases attributed to thrombin-mediated or thrombin-associated actions and processes including thrombotic diseases such as myocardial infarction, stroke, pulmonary embolism, deep vein thrombosis, etc. They are also used for decreasing the dosage of a thrombotic agent required to establish reperfusion or prevent reocclusion in a patient. Thus, 3-(1,2,3,4-tetrahydroquinolin-6-yl)propionic acid derivative I (A = B = Me, C = CH2CH2CO2H) was heated with (PhO)2P(O)N3 and Et3N in toluene at 100° for 2 h and the resulting oil I (A = B = Me, C = CH2CH2NCO)

was stirred with MeNH₂ in CH₂Cl₂ at 20° for 1 h to give I (A = B = Me, C = CH₂CH₂NHCONHMe). The title compds. I in vitro inhibited human thrombin with K_i values of 18-86 nM.

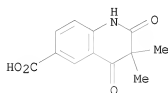
IT 184041-54-1P 184041-58-5P 184041-62-1P
184041-89-2P 184042-06-6P 184042-08-8P
184042-09-9P 202465-00-7P 202465-54-1P
202465-63-2P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of N-(α-carboxy-α-benothiazolymethyl)tetrahydroquinolinesulfonamides as inhibitors of trypsin and thrombin and antithrombotics)

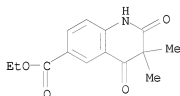
RN 184041-54-1 CAPLUS

CN 6-Quinolinesulfonylcarboxylic acid, 1,2,3,4-tetrahydro-3,3-dimethyl-2,4-dioxo- (CA INDEX NAME)



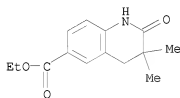
RN 184041-58-5 CAPLUS

CN 6-Quinolinesulfonylcarboxylic acid, 1,2,3,4-tetrahydro-3,3-dimethyl-2,4-dioxo-, ethyl ester (CA INDEX NAME)



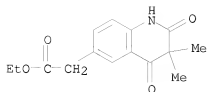
RN 184041-62-1 CAPLUS

CN 6-Quinolinesulfonylcarboxylic acid, 1,2,3,4-tetrahydro-3,3-dimethyl-2-oxo-, ethyl ester (CA INDEX NAME)



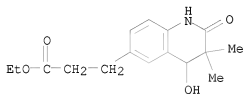
RN 184041-89-2 CAPLUS

CN 6-Quinolinesulfonylcarboxylic acid, 1,2,3,4-tetrahydro-3,3-dimethyl-2,4-dioxo-, ethyl ester (CA INDEX NAME)



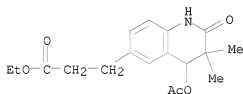
RN 184042-06-6 CAPLUS

CN 6-Quinolinepropanoic acid, 1,2,3,4-tetrahydro-4-hydroxy-3,3-dimethyl-2-oxo-, ethyl ester (CA INDEX NAME)



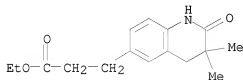
RN 184042-08-8 CAPLUS

CN 6-Quinolinepropanoic acid, 4-(acetyloxy)-1,2,3,4-tetrahydro-3,3-dimethyl-2-oxo-, ethyl ester (CA INDEX NAME)



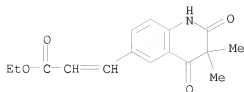
RN 184042-09-9 CAPLUS

CN 6-Quinolinepropanoic acid, 1,2,3,4-tetrahydro-3,3-dimethyl-2-oxo-, ethyl ester (CA INDEX NAME)

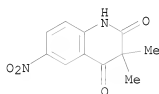


RN 202465-00-7 CAPLUS

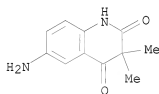
CN 2-Propenoic acid, 3-(1,2,3,4-tetrahydro-3,3-dimethyl-2,4-dioxo-6-quinolinyl)-, ethyl ester (CA INDEX NAME)



RN 202465-54-1 CAPLUS
 CN 2,4(1H,3H)-Quinolinedione, 3,3-dimethyl-6-nitro- (CA INDEX NAME)



RN 202465-63-2 CAPLUS
 CN 2,4(1H,3H)-Quinolinedione, 6-amino-3,3-dimethyl- (CA INDEX NAME)



L32 ANSWER 41 OF 68 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1997:440055 CAPLUS

DOCUMENT NUMBER: 127:50546

TITLE: Preparation of 3-[(fluorobenzoylpiperidino)alkyl]-2-quinolones as 5-HT antagonists

INVENTOR(S): Mccort, Gary; Hoornaert, Christian; Denys, Colombe

PATENT ASSIGNEE(S): Synthelabo S. A., Fr.

SOURCE: Fr. Demande, 20 pp.

CODEN: FRXXBL

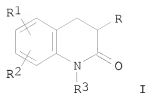
DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2739099	A1	19970328	FR 1995-11082	19950921
FR 2739099	B1	19971031		
PRIORITY APPLN. INFO.:			FR 1995-11082	19950921
OTHER SOURCE(S):			CASREACT 127:50546; MARPAT 127:50546	
GI				



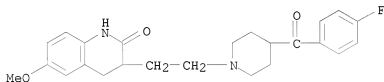
AB Title compds. [I; R = (CH₂)_mR₄; R₁,R₂ = H, halo, alkyl, alkoxy, etc.; R₃ = H or (un)substituted alkyl; R₄ = 4-(4-fluorobenzoyl)-1-piperidinyl; m = 2-4] were prepared. Thus, 5,2-Cl(O₂N)C₆H₃CHO was condensed with α-Triphenylphosphoranylidene-γ-butyrolactone and the cyclized product converted in 3 step to chloroethylquinolone I (R = CH₂CH₂R₄, R₁ = 6-Cl, R₂ = H, R₃ = Me) (II; R₄ = Cl) which was condensed with 4-(4-fluorobenzoyl)piperidine to give II (R₄ = 4-(4-fluorobenzoyl)-1-piperidinyl). Data for biol. activity of I were given.

IT 191156-14-6P 191156-16-8P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of 3-[(fluorobenzoylpiperidino)alkyl]-2-quinolones as 5-HT antagonists)

RN 191156-14-6 CAPLUS

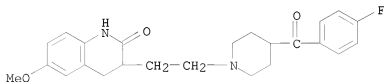
CN 2(1H)-Quinolinone, 3-[2-[4-(4-fluorobenzoyl)-1-piperidinyl]ethyl]-3,4-dihydro-6-methoxy-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 191156-16-8 CAPLUS

CN 2(1H)-Quinolinone, 3-[2-[4-(4-fluorobenzoyl)-1-piperidinyl]ethyl]-3,4-dihydro-6-methoxy- (CA INDEX NAME)



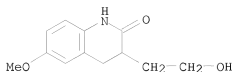
IT 190203-90-8P 190203-91-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of 3-[(fluorobenzoylpiperidino)alkyl]-2-quinolones as 5-HT antagonists)

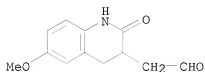
RN 190203-90-8 CAPLUS

CN 2(1H)-Quinolinone, 3,4-dihydro-3-(2-hydroxyethyl)-6-methoxy- (CA INDEX NAME)

NAME)



RN 190203-91-9 CAPLUS
CN 3-Quinoloneacetaldehyde, 1,2,3,4-tetrahydro-6-methoxy-2-oxo- (CA INDEX NAME)

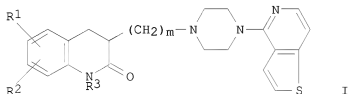


L32 ANSWER 42 OF 68 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1997:385545 CAPLUS
DOCUMENT NUMBER: 127:5018
TITLE: Preparation of 3-[ω-(thieno[3,2-c]pyridin-4-yl)piperazin-1-yl]alkyl]-3,4-dihydroquinolin-2(1H)-ones as serotonin antagonists
INVENTOR(S): McCort, Gary; Hoornaert, Christian; Denys, Colombe
PATENT ASSIGNEE(S): Synthelabo S. A., Fr.
SOURCE: Fr. Demande, 22 pp.
CODEN: FRXXBL
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2738823	A1	19970321	FR 1995-10816	19950915
FR 2738823	B1	19971031		

PRIORITY APPLN. INFO.:
OTHER SOURCE(S): MARPAT 127:5018
GI



AB Seven title compds. I [R1, R2 = H, halo, amino, OH, NO2, cyano, alkyl, alkoxy, CF3, CF3O, COOH, COOR4, CONH2, CONHR4, CONR4R5, NR42, SR4, SO2R4, OSO2CF3, NHSO2R4 (R4, R5 = alkyl); R3 = H, alkyl, (CH2)pOH, (CH2)pnH2, (CH2)nCONH2, etc. (n = 1-4; p = 2-4); m = 2-4] were prepared and their serotonin antagonistic activity determined E.g., 2-nitrobenzaldehyde was

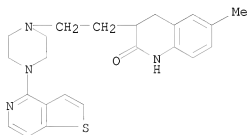
reacted with (γ -butyrolactonylidene)triphenylphosphorane and the product reductively cyclized to give 3-(2-hydroxyethyl)-3,4-dihydroquinolin-2(1H)-one. The last was silylated, N-methylated, chlorinated (thionyl chloride), and reacted with 4-(1-piperazinyl)thieno[3,2-c]pyridine to give I (R1 = R2 = H; R3 = Me; m = 2) as the dihydrochloride salt.

IT 190203-81-7P 190203-82-8P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of [(thienopyridinyl)piperazinyl]alkyl]dihydroquinolinones as serotonin antagonists)

RN 190203-81-7 CAPLUS

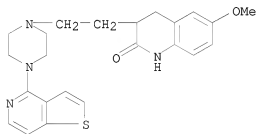
CN 2(1H)-Quinolinone, 3,4-dihydro-6-methyl-3-[2-(4-thieno[3,2-c]pyridin-4-yl-1-piperazinyl)ethyl]-, dihydrochloride (9CI) (CA INDEX NAME)



● 2 HCl

RN 190203-82-8 CAPLUS

CN 2(1H)-Quinolinone, 3,4-dihydro-6-methoxy-3-[2-(4-thieno[3,2-c]pyridin-4-yl-1-piperazinyl)ethyl]-, dihydrochloride (9CI) (CA INDEX NAME)



● 2 HCl

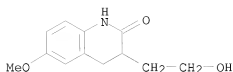
IT 190203-90-8P 190203-91-9P 190203-92-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

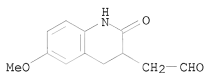
(preparation of [(thienopyridinyl)piperazinyl]alkyl]dihydroquinolinones as serotonin antagonists)

RN 190203-90-8 CAPLUS

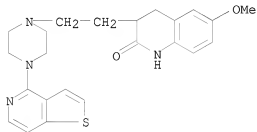
CN 2(1H)-Quinolinone, 3,4-dihydro-3-(2-hydroxyethyl)-6-methoxy- (CA INDEX NAME)



RN 190203-91-9 CAPLUS
CN 3-Quinoloneacetaldehyde, 1,2,3,4-tetrahydro-6-methoxy-2-oxo- (CA INDEX NAME)



RN 190203-92-0 CAPLUS
CN 2-(1H)-Quinolone, 3,4-dihydro-6-methoxy-3-[2-(4-thieno[3,2-c]pyridin-4-yl)-1-piperazinyl]ethyl- (CA INDEX NAME)



L32 ANSWER 43 OF 68 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1997:262541 CAPLUS

DOCUMENT NUMBER: 126:327309

TITLE: Comparative study of some synthesized and commercial fluorogenic substrates for horseradish peroxidase and its mimetic enzyme hemin by a flow injection method
Li, Yuan-Zong; Townshend, Alan
Sch. Chem., Univ. Hull, Hull, HU6 7RX, UK
SOURCE: Analytica Chimica Acta (1997), 340(1-3), 159-168
CODEN: ACACAM; ISSN: 0003-2670

PUBLISHER: Elsevier

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Four 3,4-dihydroquinoxalin-2(1H)-one derivs., i.e., 3,4-dihydroquinoxalin-2(1H)-one (DHQ), 3-methyl-3,4-dihydroquinoxalin-2(1H)-one (MDHQ), 3,4-dihydroquinoxalin-2(1H)-one-6-acid (DHQ-6-A) and 3-methyl-3,4-dihydroquinoxalin-2(1H)-one-6-acid (MDHQ-6-A), and N,N'-dicyanomethyl-o-phenylenediamine (DCM-OPA) were synthesized as potential substrates for horseradish peroxidase (HRP). Of these compds. DCM-OPA, DHQ, and MDHQ can be prepared by very simple methods in a pure form in large quantities. Their properties for use as fluorogenic substrates for HRP and its mimetic enzyme hemin were compared with com. available substrates, i.e., p-hydroxyphenylacetic acid (p-HPA), p-hydroxyphenylpropionic acid (p-HPPA), homovanillic acid (HVA), and tyramine, by a flow injection

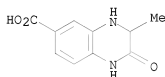
method. The results showed that DCM-OPA and MDHQ were the best among the 5 synthesized substrates and p-HPPA and p-HPA are better than HVA and tyramine. Substrates p-HPPA, p-HPA, DCM-OPA and MDHQ showed comparable ability for H2O2 detection in HRP and hemin catalyzed reaction systems, with detection limits in the nmol per L region. The stability of DCM-OPA is better than MDHQ, but both are stable for at least a month in a refrigerator.

IT 103039-19-6P

RL: ARG (Analytical reagent use); BPR (Biological process); BSU (Biological study, unclassified); SPN (Synthetic preparation); ANST (Analytical study); BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses)
(comparative study of some synthesized and com. fluorogenic substrates for horseradish peroxidase and its mimetic enzyme hemin by a flow injection method)

RN 103039-19-6 CAPLUS

CN 6-Quinoxalinecarboxylic acid, 1,2,3,4-tetrahydro-3-methyl-2-oxo- (CA INDEX NAME)



REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 44 OF 68 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1996:746209 CAPLUS

DOCUMENT NUMBER: 126:19324

TITLE: Preparation of arylsulfonylamino acid amide trypsin and thrombin inhibitors.

INVENTOR(S): Hoyle, William; Howarth, Graham Arton; Brundish, Derek Edward; Kane, Peter Daniel; Walker, Clive Victor; Hayler, Judy; Fullerton, Joseph David; Smith, Garric Paul; Wathey, William Bernard; et al.

PATENT ASSIGNEE(S): Ciba-Geigy A.-G., Switz.

SOURCE: PCT Int. Appl., 202 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

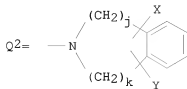
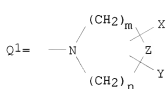
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9629327	A1	19960926	WO 1996-GB520	19960308
W: AL, AM, AU, BB, BG, BR, BY, CA, CN, CZ, EE, FI, GE, HU, IS, JP, KG, KP, KR, KZ, LK, LR, LS, LT, LV, MD, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TJ, TM, TT, UA, US, UZ, VN				
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9648872	A	19961008	AU 1996-48872	19960308
EP 815103	A1	19980107	EP 1996-904963	19960308
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE				
JP 11502219	T	19990223	JP 1996-528155	19960308
ZA 9602112	A	19960918	ZA 1996-2112	19960315
PRIORITY APPLN. INFO.:			GB 1995-5538	A 19950318

OTHER SOURCE(S):

MARPAT 126:19324

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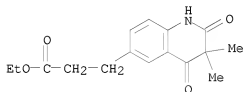
AB ArSO₂AQ (Ar = (substituted) aryl, heterocyclyl; A = amino acid residue; Q = Q1, Q2; X = H, alkyl; Y = SO₃H, PO(OR14)2, OH, SH, NR15R16, halo, (substituted) (CqH2q)Q3, etc.; Q3 = H, COR14, CO₂R14, CONR15R16, SO₃H, OR14, OCOR14, PO(OR14)2, NR15R16, SR14, halo; R14, R15, R16 = H, alkyl, cycloalkyl, aralkyl; R15R16N = 5-6 membered azacycloalkyl, oxazacycloalkyl; XY = O; Z = bond, O, N optionally substituted by X or Y; m, n = 2-4; m + n = 4-6, j, k = 0-2; j + k = 2-3; when A = Arg, then X, Y ≠ alkyl; when Q = COR14, then q = 1-8], were prepared. Thus, (S)-arginine and 3-(1-methyl-1-phenylethyl)benzenesulfonyl chloride were stirred with Na₂CO₃ in H₂O/dioxane to give 5-guanidino-2(S)-[3-(1-methyl-1-phenylethyl)benzenesulfonylamino]pentanoic acid. The latter was converted to the acid chloride hydrochloride, which was condensed with pyrrolidin-2(R)-ylmethanol in DMF containing Et₃N to give N-[4-guanidino-1(S)-2(R)-hydroxymethylpyrrolidine-1-carbonylbutyl]-3-(1-methyl-1-phenylethyl)benzenesulfonamide. Tested title compds. inhibited human α-thrombin with K_i = 0.007-0.094 μM.

IT 184043-94-5

RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of arylsulfonylamino acid amide trypsin and thrombin inhibitors)

RN 184043-94-5 CAPLUS

CN 6-Quinolinepropanoic acid, 1,2,3,4-tetrahydro-3,3-dimethyl-2,4-dioxo-, ethyl ester (CA INDEX NAME)



IT 184041-54-1P 184041-58-5P 184041-62-1P

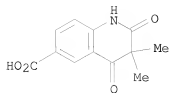
184041-89-2P 184042-06-6P 184042-08-8P

184042-09-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of arylsulfonylamino acid amide trypsin and thrombin inhibitors)

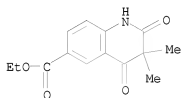
RN 184041-54-1 CAPLUS

CN 6-Quinolinecarboxylic acid, 1,2,3,4-tetrahydro-3,3-dimethyl-2,4-dioxo- (CA INDEX NAME)



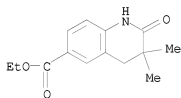
RN 184041-58-5 CAPLUS

CN 6-Quinolinecarboxylic acid, 1,2,3,4-tetrahydro-3,3-dimethyl-2,4-dioxo-, ethyl ester (CA INDEX NAME)



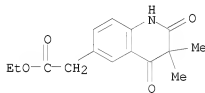
RN 184041-62-1 CAPLUS

CN 6-Quinolinecarboxylic acid, 1,2,3,4-tetrahydro-3,3-dimethyl-2-oxo-, ethyl ester (CA INDEX NAME)



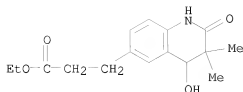
RN 184041-89-2 CAPLUS

CN 6-Quinolineacetic acid, 1,2,3,4-tetrahydro-3,3-dimethyl-2,4-dioxo-, ethyl ester (CA INDEX NAME)

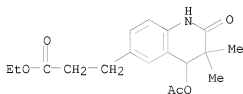


RN 184042-06-6 CAPLUS

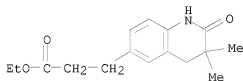
CN 6-Quinolinepropanoic acid, 1,2,3,4-tetrahydro-4-hydroxy-3,3-dimethyl-2-oxo-, ethyl ester (CA INDEX NAME)



RN 184042-08-8 CAPLUS
 CN 6-Quinolinepropanoic acid, 4-(acetyloxy)-1,2,3,4-tetrahydro-3,3-dimethyl-2-oxo-, ethyl ester (CA INDEX NAME)



RN 184042-09-9 CAPLUS
 CN 6-Quinolinepropanoic acid, 1,2,3,4-tetrahydro-3,3-dimethyl-2-oxo-, ethyl ester (CA INDEX NAME)

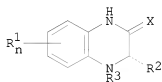


L32 ANSWER 45 OF 68 CAPLUS COPYRIGHT 2008 ACS on STN

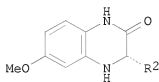
ACCESSION NUMBER: 1996:379661 CAPLUS
 DOCUMENT NUMBER: 125:58539
 TITLE: Preparation of quinoxalinones as antiviral agents
 INVENTOR(S): Roesner, Manfred; Billhardt-Troughton, Uta-Maria;
 Kirsch, Reinhard; Kleim, Joerg-Peter; Meichsner,
 Christoph; Riess, Guenther; Winkler, Irvin
 PATENT ASSIGNEE(S): Hoechst A.-G., Germany
 SOURCE: Eur. Pat. Appl., 30 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 708093	A1	19960424	EP 1995-116094	19951012
EP 708093	B1	20010117		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
DE 4437406	A1	19960425	DE 1994-4437406	19941019
AT 198747	T	20010215	AT 1995-116094	19951012
ES 2154311	T3	20010401	ES 1995-116094	19951012
PT 708093	T	20010629	PT 1995-116094	19951012

FI 9504946	A	19960420	FI 1995-4946	19951017
AU 9534316	A	19960502	AU 1995-34316	19951017
AU 708293	B2	19990729		
US 5723461	A	19980303	US 1995-544290	19951017
CA 2160859	A1	19960420	CA 1995-2160859	19951018
NO 9504139	A	19960422	NO 1995-4139	19951018
ZA 9508783	A	19960509	ZA 1995-8783	19951018
HU 73485	A2	19960828	HU 1995-3005	19951018
CN 1135483	A	19961113	CN 1995-120372	19951018
CN 1094930	B	20021127		
HR 950524	B1	20020630	HR 1995-524	19951018
PL 184860	B1	20030131	PL 1995-311016	19951018
JP 08225544	A	19960903	JP 1995-271019	19951019
BR 9504456	A	19970520	BR 1995-4456	19951019
HK 1011988	A1	20010928	HK 1998-113241	19981212
GR 3035673	T3	20010629	GR 2001-400523	20010330
PRIORITY APPLN. INFO.:			DE 1994-4437406	A 19941019
OTHER SOURCE(S):	MARPAT	125:58539		
GI				



I



II

AB Title compds. [tautomeric I; R1 = F, Cl, OH, alkoxy; R2 = (hydroxy)alkyl, alkoxy, alkylthio; R3 = alkoxycarbonyl, alkenyloxycarbonyl; X = O, S, Se; n = 0-2] were prepared. Thus, L-cysteine was N-arylated with 2,4-F2C6H3NO2 and the etherified product reductively cyclized to give, after N-acylation, title compound II (R2 = SMe). II (R2 = Et) had MIC of <1ng/mL against HIV activity in T-cell culture.

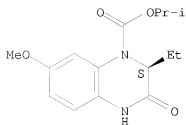
IT 178040-97-6P 178040-98-7P 178041-00-4P
178041-01-5P 178041-02-6P 178041-03-7P
178041-10-6P 178041-12-8P 178041-16-2P
178041-17-3P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(preparation of quinoxalinones as antiviral agents)

RN 178040-97-6 CAPLUS

CN 1(2H)-Quinoxalinecarboxylic acid, 2-ethyl-3,4-dihydro-7-methoxy-3-oxo-, 1-methylethyl ester, (S)- (9CI) (CA INDEX NAME)

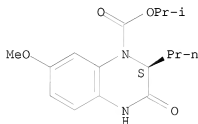
Absolute stereochemistry.



RN 178040-98-7 CAPLUS

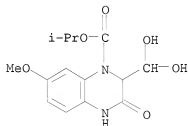
CN 1(2H)-Quinoxalinecarboxylic acid, 3,4-dihydro-7-methoxy-3-oxo-2-propyl-, 1-methylethyl ester, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 178041-00-4 CAPLUS

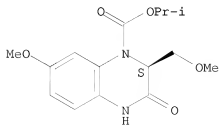
CN 1(2H)-Quinoxalinecarboxylic acid, 2-(dihydroxymethyl)-3,4-dihydro-7-methoxy-3-oxo-, 1-methylethyl ester (CA INDEX NAME)



RN 178041-01-5 CAPLUS

CN 1(2H)-Quinoxalinecarboxylic acid, 3,4-dihydro-7-methoxy-2-(methoxymethyl)-3-oxo-, 1-methylethyl ester, (S)- (9CI) (CA INDEX NAME)

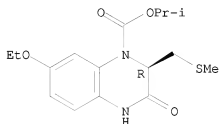
Absolute stereochemistry.



RN 178041-02-6 CAPLUS

CN 1(2H)-Quinoxalinecarboxylic acid, 7-ethoxy-3,4-dihydro-2-
[(methylthio)methyl]-3-oxo-, 1-methylethyl ester, (R)- (9CI) (CA INDEX
NAME)

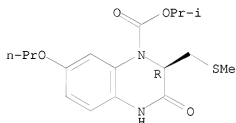
Absolute stereochemistry.



RN 178041-03-7 CAPLUS

CN 1(2H)-Quinoxalinecarboxylic acid, 3,4-dihydro-2-[(methylthio)methyl]-3-oxo-
7-propoxy-, 1-methylethyl ester, (R)- (9CI) (CA INDEX NAME)

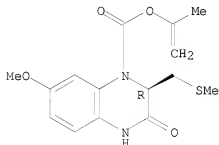
Absolute stereochemistry.



RN 178041-10-6 CAPLUS

CN 1(2H)-Quinoxalinecarboxylic acid, 3,4-dihydro-7-methoxy-2-
[(methylthio)methyl]-3-oxo-, 1-methylethenyl ester, (2R)- (CA INDEX NAME)

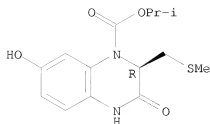
Absolute stereochemistry.



RN 178041-12-8 CAPLUS

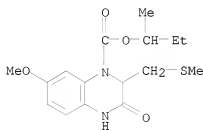
CN 1(2H)-Quinoxalinecarboxylic acid, 3,4-dihydro-7-hydroxy-2-
[(methylthio)methyl]-3-oxo-, 1-methylethyl ester, (R)- (9CI) (CA INDEX
NAME)

Absolute stereochemistry.



RN 178041-16-2 CAPLUS

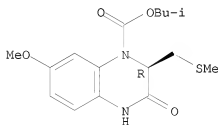
CN 1(2H)-Quinoxalinecarboxylic acid, 3,4-dihydro-7-methoxy-2-[(methylthio)methyl]-3-oxo-, 1-methylpropyl ester (CA INDEX NAME)



RN 178041-17-3 CAPLUS

CN 1(2H)-Quinoxalinecarboxylic acid, 3,4-dihydro-7-methoxy-2-[(methylthio)methyl]-3-oxo-, 2-methylpropyl ester, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



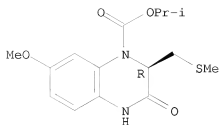
IT 178040-87-4P 178040-99-8P 178041-13-9P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of quinoxalinones as antiviral agents)

RN 178040-87-4 CAPLUS

CN 1(2H)-Quinoxalinecarboxylic acid, 3,4-dihydro-7-methoxy-2-[(methylthio)methyl]-3-oxo-, 1-methylethyl ester, (2R)- (CA INDEX NAME)

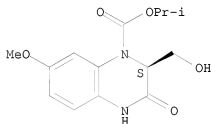
Absolute stereochemistry.



RN 178040-99-8 CAPLUS

CN 1(2H)-Quinoxalinecarboxylic acid, 3,4-dihydro-2-(hydroxymethyl)-7-methoxy-3-oxo-, 1-methylethyl ester, (S)- (9CI) (CA INDEX NAME)

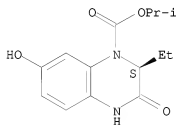
Absolute stereochemistry.



RN 178041-13-9 CAPLUS

CN 1(2H)-Quinoxalinecarboxylic acid, 2-ethyl-3,4-dihydro-7-hydroxy-3-oxo-, 1-methylethyl ester, (2S)- (CA INDEX NAME)

Absolute stereochemistry.



IT 178041-55-9P 178041-56-0P 178041-57-1P

178041-70-8P 178041-71-9P 178041-72-0P

178041-73-1P 178041-74-2P 178041-75-3P

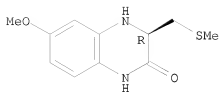
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of quinoxalinones as antiviral agents)

RN 178041-55-9 CAPLUS

CN 2(1H)-Quinoxalinone, 3,4-dihydro-6-methoxy-3-[(methylthio)methyl]-, (R)- (9CI) (CA INDEX NAME)

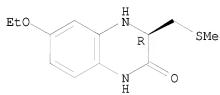
Absolute stereochemistry. Rotation (-).



RN 178041-56-0 CAPLUS

CN 2(1H)-Quinoxalinone, 6-ethoxy-3,4-dihydro-3-[(methylthio)methyl]-, (R)-
(9CI) (CA INDEX NAME)

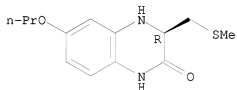
Absolute stereochemistry.



RN 178041-57-1 CAPLUS

CN 2(1H)-Quinoxalinone, 3,4-dihydro-3-[(methylthio)methyl]-6-propoxy-, (R)-
(9CI) (CA INDEX NAME)

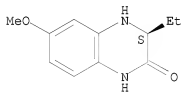
Absolute stereochemistry.



RN 178041-70-8 CAPLUS

CN 2(1H)-Quinoxalinone, 3-ethyl-3,4-dihydro-6-methoxy-, (S)- (9CI) (CA INDEX NAME)

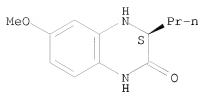
Absolute stereochemistry.



RN 178041-71-9 CAPLUS

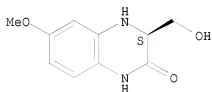
CN 2(1H)-Quinoxalinone, 3,4-dihydro-6-methoxy-3-propyl-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

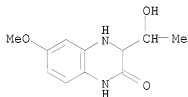


RN 178041-72-0 CAPLUS
 CN 2(1H)-Quinoxalinone, 3,4-dihydro-3-(hydroxymethyl)-6-methoxy-, (S)- (9CI)
 (CA INDEX NAME)

Absolute stereochemistry.

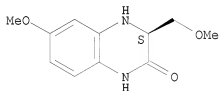


RN 178041-73-1 CAPLUS
 CN 2(1H)-Quinoxalinone, 3,4-dihydro-3-(1-hydroxyethyl)-6-methoxy- (CA INDEX
 NAME)



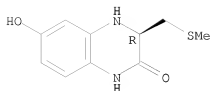
RN 178041-74-2 CAPLUS
 CN 2(1H)-Quinoxalinone, 3,4-dihydro-6-methoxy-3-(methoxymethyl)-, (S)- (9CI)
 (CA INDEX NAME)

Absolute stereochemistry.



RN 178041-75-3 CAPLUS
 CN 2(1H)-Quinoxalinone, 3,4-dihydro-6-methoxy-3-[(methylthio)methyl]-, (R)-
 (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L32 ANSWER 46 OF 68 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1996:294891 CAPLUS

DOCUMENT NUMBER: 124:343136

TITLE: Preparation of 4-alkylidene-2-quinolinones as antiviral agents

INVENTOR(S): Kirsch, Reinhard; Kleim, Joerg-Peter; Riess, Guenther; Roesner, Manfred; Winkler, Irvin

PATENT ASSIGNEE(S): Hoechst A.-G., Germany

SOURCE: Eur. Pat. Appl., 70 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: German

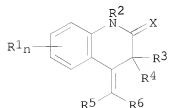
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

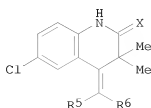
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 697405	A1	19960221	EP 1995-112585	19950810
EP 697405	B1	20020814		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
DE 4428932	A1	19960222	DE 1994-4428932	19940816
AT 222239	T	20020815	AT 1995-112585	19950810
PT 697405	T	20021231	PT 1995-112585	19950810
ES 2179857	T3	20030201	ES 1995-112585	19950810
FI 9503841	A	19960217	FI 1995-3841	19950814
AU 9528531	A	19960229	AU 1995-28531	19950814
AU 710238	B2	19990916		
US 5798365	A	19980825	US 1995-515556	19950814
CA 2156128	A1	19960217	CA 1995-2156128	19950815
NO 9503204	A	19960219	NO 1995-3204	19950815
JP 08059621	A	19960305	JP 1995-228639	19950815
JP 3860618	B2	20061220		
ZA 9506798	A	19960319	ZA 1995-6798	19950815
CN 1123275	A	19960529	CN 1995-115281	19950815
HU 73133	A2	19960628	HU 1995-2403	19950815
TW 407151	B	20001001	TW 1995-84108914	19950828
PRIORITY APPLN. INFO.:			DE 1994-4428932	A 19940816

OTHER SOURCE(S): MARPAT 124:343136

GI



I



II

AB Title compds. [I; R1 = halo, OH, alkyl, alkoxy, etc.; R2 = H, (un)substituted alk(en)yl, alkanoyl, etc.; R3,R4 = H, (un)substituted alk(en)yl, etc.; R3R4 = atoms to form a carbocyclic ring, (un)substituted methylene; R5,R6 = H, CO2H, alkyl, etc.; X = O, S, NR2, etc.; n = 0-4] were prepared. Thus, 5-chloroisatoic anhydride was cyclocondensed with Me2CHCO2Et to give 6-chloro-3,3-dimethyl-1,3-dihydroquinoline-2,4-dione which was condensed with BuMgBr and the product dehydrated to give a mixture of title compound II (I of R5,R6 = Pr and the other = H, X = O). Similarly prepared II (I of R5,R6 = Et and the other = H, X = S) had MIC of 0.0016 µg/mL against HIV proliferation in cell culture and IC50 of 8nM against HIV reverse transcriptase in vitro.

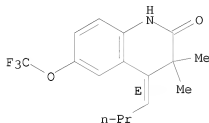
IT 176497-00-0P 176497-06-6P 176497-08-8P
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 176497-21-5P 176497-23-7P 176497-27-1P
 176497-30-6P 176497-31-7P 176497-44-2P
 176497-83-9P 176497-93-1P 176497-96-4P
 176497-97-5P 176498-90-1P 176498-92-3P
 176498-94-5P 176499-02-8P 176499-04-0P
 176499-06-2P 176499-09-5P 176499-12-0P
 176499-25-5P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of 4-alkylidene-2-quinolinones as antiviral agents)

RN 176497-00-0 CAPLUS

CN 2(1H)-Quinolinone, 4-butyldiene-3,4-dihydro-3,3-dimethyl-6-(trifluoromethoxy)-, (E)- (9CI) (CA INDEX NAME)

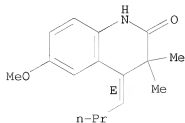
Double bond geometry as shown.



RN 176497-06-6 CAPLUS

CN 2(1H)-Quinolinone, 4-butyldiene-3,4-dihydro-6-methoxy-3,3-dimethyl-, (E)- (9CI) (CA INDEX NAME)

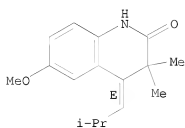
Double bond geometry as shown.



RN 176497-08-8 CAPLUS

CN 2(1H)-Quinolinone, 3,4-dihydro-6-methoxy-3,3-dimethyl-4-(2-methylpropylidene)-, (E)- (9CI) (CA INDEX NAME)

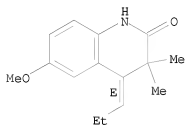
Double bond geometry as shown.



RN 176497-09-9 CAPLUS

CN 2(1H)-Quinolinone, 3,4-dihydro-6-methoxy-3,3-dimethyl-4-propylidene-, (E)-
(9CI) (CA INDEX NAME)

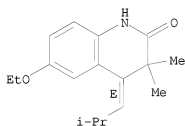
Double bond geometry as shown.



RN 176497-11-3 CAPLUS

CN 2(1H)-Quinolinone, 6-ethoxy-3,4-dihydro-3,3-dimethyl-4-(2-methylpropylidene)-, (E)- (9CI) (CA INDEX NAME)

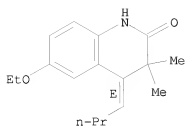
Double bond geometry as shown.



RN 176497-19-1 CAPLUS

CN 2(1H)-Quinolinone, 4-butyldiene-6-ethoxy-3,4-dihydro-3,3-dimethyl-, (E)-
(9CI) (CA INDEX NAME)

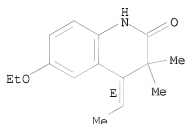
Double bond geometry as shown.



RN 176497-21-5 CAPLUS

CN 2(1H)-Quinolinone, 6-ethoxy-4-ethylidene-3,4-dihydro-3,3-dimethyl-, (E)-
(9CI) (CA INDEX NAME)

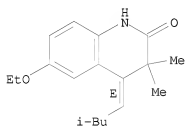
Double bond geometry as shown.



RN 176497-23-7 CAPLUS

CN 2(1H)-Quinolinone, 6-ethoxy-3,4-dihydro-3,3-dimethyl-4-(3-
methylbutylidene)-, (E)- (9CI) (CA INDEX NAME)

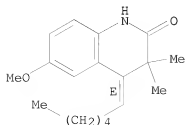
Double bond geometry as shown.



RN 176497-27-1 CAPLUS

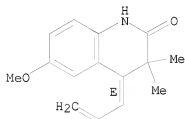
CN 2(1H)-Quinolinone, 4-hexylidene-3,4-dihydro-6-methoxy-3,3-dimethyl-, (E)-
(9CI) (CA INDEX NAME)

Double bond geometry as shown.



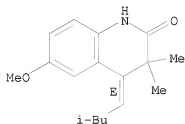
RN 176497-30-6 CAPLUS
 CN 2(1H)-Quinolinone, 3,4-dihydro-6-methoxy-3,3-dimethyl-4-(2-propenylidene)-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



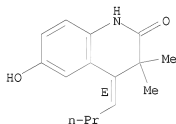
RN 176497-31-7 CAPLUS
 CN 2(1H)-Quinolinone, 3,4-dihydro-6-methoxy-3,3-dimethyl-4-(3-methylbutylidene)-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

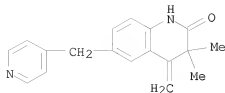


RN 176497-44-2 CAPLUS
 CN 2(1H)-Quinolinone, 4-butylidene-3,4-dihydro-6-hydroxy-3,3-dimethyl-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

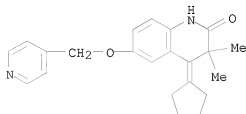


RN 176497-83-9 CAPLUS
 CN 2(1H)-Quinolinone, 3,4-dihydro-3,3-dimethyl-4-methylene-6-(4-pyridinylmethyl)- (CA INDEX NAME)



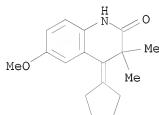
RN 176497-93-1 CAPLUS

CN 2(1H)-Quinolinone, 4-cyclopentylidene-3,4-dihydro-3,3-dimethyl-6-(4-pyridinylmethoxy)- (CA INDEX NAME)



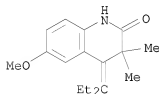
RN 176497-96-4 CAPLUS

CN 2(1H)-Quinolinone, 4-cyclopentylidene-3,4-dihydro-6-methoxy-3,3-dimethyl- (CA INDEX NAME)



RN 176497-97-5 CAPLUS

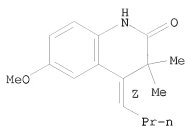
CN 2(1H)-Quinolinone, 4-(1-ethylpropylidene)-3,4-dihydro-6-methoxy-3,3-dimethyl- (CA INDEX NAME)



RN 176498-90-1 CAPLUS

CN 2(1H)-Quinolinone, 4-butylidene-3,4-dihydro-6-methoxy-3,3-dimethyl-, (Z)- (9CI) (CA INDEX NAME)

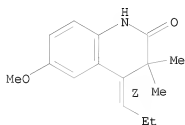
Double bond geometry as shown.



RN 176498-92-3 CAPLUS

CN 2(1H)-Quinolinone, 3,4-dihydro-6-methoxy-3,3-dimethyl-4-propylidene-, (Z)-
(9CI) (CA INDEX NAME)

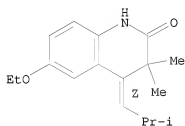
Double bond geometry as shown.



RN 176498-94-5 CAPLUS

CN 2(1H)-Quinolinone, 6-ethoxy-3,4-dihydro-3,3-dimethyl-4-(2-methylpropylidene)-, (Z)- (9CI) (CA INDEX NAME)

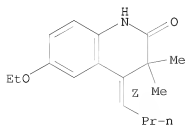
Double bond geometry as shown.



RN 176499-02-8 CAPLUS

CN 2(1H)-Quinolinone, 4-butyldiene-6-ethoxy-3,4-dihydro-3,3-dimethyl-, (Z)-
(9CI) (CA INDEX NAME)

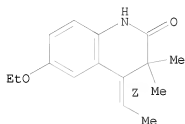
Double bond geometry as shown.



RN 176499-04-0 CAPLUS

CN 2(1H)-Quinolinone, 6-ethoxy-4-ethylidene-3,4-dihydro-3,3-dimethyl-, (Z)-
(9CI) (CA INDEX NAME)

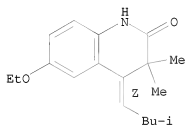
Double bond geometry as shown.



RN 176499-06-2 CAPLUS

CN 2(1H)-Quinolinone, 6-ethoxy-3,4-dihydro-3,3-dimethyl-4-(3-methylbutylidene)-, (Z)- (9CI) (CA INDEX NAME)

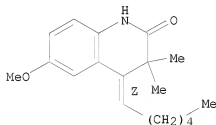
Double bond geometry as shown.



RN 176499-09-5 CAPLUS

CN 2(1H)-Quinolinone, 4-hexylidene-3,4-dihydro-6-methoxy-3,3-dimethyl-, (Z)-
(9CI) (CA INDEX NAME)

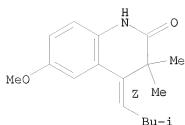
Double bond geometry as shown.



RN 176499-12-0 CAPLUS

CN 2(1H)-Quinolinone, 3,4-dihydro-6-methoxy-3,3-dimethyl-4-(3-methylbutylidene)-, (Z)- (9CI) (CA INDEX NAME)

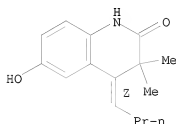
Double bond geometry as shown.



RN 176499-25-5 CAPLUS

CN 2(1H)-Quinolinsonone, 4-butylidene-3,4-dihydro-6-hydroxy-3,3-dimethyl-, (Z)-
(9CI) (CA INDEX NAME)

Double bond geometry as shown.



IT 158602-14-3P 176498-21-8P 176498-22-9P

176498-24-1P 176498-25-2P 176498-26-3P

176498-27-4P 176498-31-0P 176498-32-1P

176498-33-2P 176498-35-4P 176498-41-2P

176498-52-5P 176498-58-1P 176498-60-5P

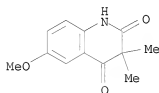
176498-61-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)

(preparation of 4-alkylidene-2-quinolinones as antiviral agents)

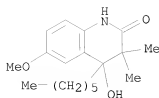
RN 158602-14-3 CAPLUS

CN 2,4(1H,3H)-Quinolinedione, 6-methoxy-3,3-dimethyl- (CA INDEX NAME)

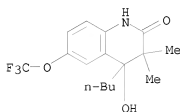


RN 176498-21-8 CAPLUS

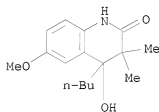
CN 2(1H)-Quinolinsonone, 4-hexyl-3,4-dihydro-4-hydroxy-6-methoxy-3,3-dimethyl-
(CA INDEX NAME)



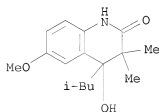
RN 176498-22-9 CAPLUS
 CN 2(1H)-Quinolinone, 4-butyl-3,4-dihydro-4-hydroxy-3,3-dimethyl-6-(trifluoromethoxy)- (CA INDEX NAME)



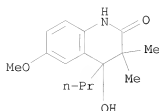
RN 176498-24-1 CAPLUS
 CN 2(1H)-Quinolinone, 4-butyl-3,4-dihydro-4-hydroxy-6-methoxy-3,3-dimethyl- (CA INDEX NAME)



RN 176498-25-2 CAPLUS
 CN 2(1H)-Quinolinone, 3,4-dihydro-4-hydroxy-6-methoxy-3,3-dimethyl-4-(2-methylpropyl)- (CA INDEX NAME)

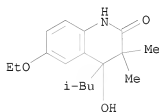


RN 176498-26-3 CAPLUS
 CN 2(1H)-Quinolinone, 3,4-dihydro-4-hydroxy-6-methoxy-3,3-dimethyl-4-propyl- (CA INDEX NAME)



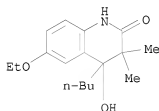
RN 176498-27-4 CAPLUS

CN 2(1H)-Quinolinone, 6-ethoxy-3,4-dihydro-4-hydroxy-3,3-dimethyl-4-(2-methylpropyl)- (CA INDEX NAME)



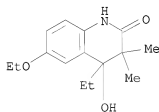
RN 176498-31-0 CAPLUS

CN 2(1H)-Quinolinone, 4-butyl-6-ethoxy-3,4-dihydro-4-hydroxy-3,3-dimethyl- (CA INDEX NAME)



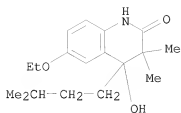
RN 176498-32-1 CAPLUS

CN 2(1H)-Quinolinone, 6-ethoxy-4-ethyl-3,4-dihydro-4-hydroxy-3,3-dimethyl- (CA INDEX NAME)



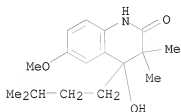
RN 176498-33-2 CAPLUS

CN 2(1H)-Quinolinone, 6-ethoxy-3,4-dihydro-4-hydroxy-3,3-dimethyl-4-(3-methylbutyl)- (CA INDEX NAME)



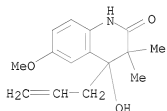
RN 176498-35-4 CAPLUS

CN 2(1H)-Quinolinone, 3,4-dihydro-4-hydroxy-6-methoxy-3,3-dimethyl-4-(3-methylbutyl)- (CA INDEX NAME)



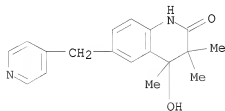
RN 176498-41-2 CAPLUS

CN 2(1H)-Quinolinone, 3,4-dihydro-4-hydroxy-6-methoxy-3,3-dimethyl-4-(2-propenyl)- (9CI) (CA INDEX NAME)



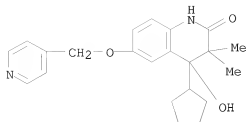
RN 176498-52-5 CAPLUS

CN 2(1H)-Quinolinone, 3,4-dihydro-4-hydroxy-3,3,4-trimethyl-6-(4-pyridinylmethyl)- (CA INDEX NAME)

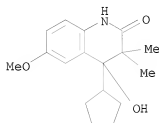


RN 176498-58-1 CAPLUS

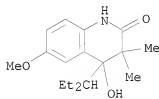
CN 2(1H)-Quinolinone, 4-cyclopentyl-3,4-dihydro-4-hydroxy-3,3-dimethyl-6-(4-pyridinylmethoxy)- (CA INDEX NAME)



RN 176498-60-5 CAPLUS
 CN 2(1H)-Quinolinone, 4-(4-(3-(4-pyridyl)phenoxy)-4,4-dimethyl-1-hydroxycyclopentyl)-3,4-dihydro-6-methoxy-3,3-dimethyl- (CA INDEX NAME)



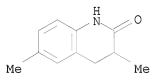
RN 176498-61-6 CAPLUS
 CN 2(1H)-Quinolinone, 4-(1-ethylpropyl)-3,4-dihydro-4-hydroxy-6-methoxy-3,3-dimethyl- (CA INDEX NAME)



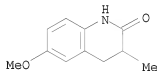
L32 ANSWER 47 OF 68 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1996:239868 CAPLUS
 DOCUMENT NUMBER: 124:260811
 TITLE: Regioselective Palladium(II)-Catalyzed Synthesis of Five- or Seven-Membered Ring Lactones and Five-, Six- or Seven-Membered Ring Lactams by Cyclocarbonylation Methodology
 AUTHOR(S): El Ali, Bassam; Okuro, Kazumi; Vasapollo, Giuseppe; Alper, Howard
 CORPORATE SOURCE: Department of Chemistry, University of Ottawa, Ottawa, ON, K1N 6N5, Can.
 SOURCE: Journal of the American Chemical Society (1996), 118(18), 4264-70
 CODEN: JACSAT; ISSN: 0002-7863
 PUBLISHER: American Chemical Society
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB The reaction of 2-allylphenols with carbon monoxide and hydrogen in the presence of catalytic quantities of a cationic palladium(II) complex

[(PCy₃)₂Pd(H₂O)]⁺BF₄⁻ or palladium acetate and 1,4-bis(diphenylphosphino)butane, gave five- or seven-membered ring lactones (bicyclic, tricyclic, and pentacyclic) as the principal products, often in excellent yields. Use of 2-aminostyrenes as reactants and catalytic quantities of palladium acetate and tricyclohexylphosphine, gave five-membered ring lactams in high yield and selectivity. Bicyclic and tricyclic heterocycles containing six-membered ring lactams were synthesized from the reaction of 2-allylanilines with CO/H₂ using the catalytic system Pd(OAc)₂/PPh₃, while use of 1,4-bis(diphenylphosphino)butane instead of PPh₃ in the latter process results in the formation of the seven-membered lactams benzazepinones in good yield. The regiochem. control depends on the nature of the palladium catalyst, the relative pressures of the gases, and the solvent. For example, the cyclocarbonylation of 2-allylphenol gave 4,5-dihydro-1-benzoxepin-2(3H)-one (59% yield) and 3-ethyl-2(3H)-benzofuranone (13% yield) and 3,4-dihydro-2H-1-benzopyran-2-one (28% yield).

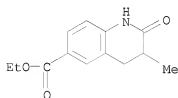
IT 175092-99-6P 175093-01-3P 175093-04-6P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (regioselective palladium-catalyzed cyclocarbonylation of allylphenols and allylbenzenamines)
 RN 175092-99-6 CAPLUS
 CN 2(1H)-Quinolinone, 3,4-dihydro-3,6-dimethyl- (CA INDEX NAME)



RN 175093-01-3 CAPLUS
 CN 2(1H)-Quinolinone, 3,4-dihydro-6-methoxy-3-methyl- (CA INDEX NAME)



RN 175093-04-6 CAPLUS
 CN 6-Quinolinecarboxylic acid, 1,2,3,4-tetrahydro-3-methyl-2-oxo-, ethyl ester (CA INDEX NAME)

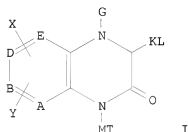


L32 ANSWER 48 OF 68 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1995:874692 CAPLUS
 DOCUMENT NUMBER: 123:286087
 TITLE: Preparation of annelated 2-oxopiperazine endothelin antagonists

INVENTOR(S): Unger, Liliane; Raschack, Manfred; Wernet, Wolfgang;
Boehm, Hans-Joachim; Riechers, Hartmut
PATENT ASSIGNEE(S): BASF A.-G., Germany
SOURCE: Ger. Offen., 9 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 4341663	A1	19950608	DE 1993-4341663	19931207
PRIORITY APPLN. INFO.:				
OTHER SOURCE(S): MARPAT 123:286087				

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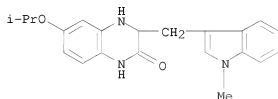


AB The title comps. [I; 2 of atoms A, B, D, E = CH and the remaining 2 are CH or N; G = COR1, SO2R1, alkyl, (un)substituted Ph, etc.; R1 = H, alkyl; K, M = direct bond, (un)substituted alkylene; L, T = CO2R3, CON(R3)R4, SO3R3; R3, R4 = H, alkyl; X, Y = H, alkyl, alkylthio, alkoxy, (un)substituted PhCH2, PhO], useful as endothelin receptor antagonists (no data), are prepared. Thus, Et [1-benzyl-4-(1H-indol-3-ylmethyl)-3-oxo-1,2,3,4-tetraquinoxalin-2-yl]acetate, m.p. 122°, was prepared in 5 steps from 2-FC6H4NO2.

IT 169282-90-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of annelated 2-oxopiperazine endothelin antagonists from)

RN 169282-90-0 CAPLUS

CN 2(1H)-Quinoxalinone, 3,4-dihydro-6-(1-methylethoxy)-3-[(1-methyl-1H-indol-3-yl)methyl]- (CA INDEX NAME)



L32 ANSWER 49 OF 68 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1995:812971 CAPLUS

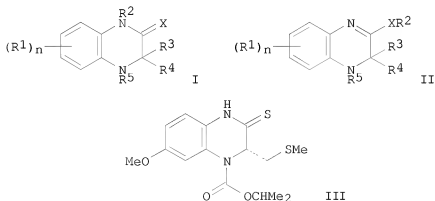
DOCUMENT NUMBER: 123:228218

TITLE: Combination of quinoxalines and nucleosides for treating viral infection and preparation of the

quinoxalines.
 INVENTOR(S): Meichsner, Christoph; Riess, Guenther; Kleim, Joerg
 Peter; Roesner, Manfred; Paessens, Arno; Blunck,
 Martin
 PATENT ASSIGNEE(S): Hoechst A.-G., Germany; Aventis Pharma Deutschland
 GmbH
 SOURCE: Eur. Pat. Appl., 69 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 657166	A1	19950614	EP 1994-119146	19941205
EP 657166	B1	20030409		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
DE 4342024	A1	19950614	DE 1993-4342024	19931209
AT 236642	T	20030415	AT 1994-119146	19941205
CN 1108935	A	19950927	CN 1994-119877	19941207
CA 2137605	A1	19950610	CA 1994-2137605	19941208
AU 9480421	A	19950615	AU 1994-80421	19941208
AU 697486	B2	19981008		
ZA 9409785	A	19950712	ZA 1994-9785	19941208
JP 07196511	A	19950801	JP 1994-330455	19941208
HU 70037	A2	19950928	HU 1994-3518	19941208
HU 221498	B	20021028		
PRIORITY APPLN. INFO.:			DE 1993-4342024	A 19931209
OTHER SOURCE(S):			CASREACT 123:228218; MARPAT 123:228218	

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AB Combinations of ≥ 1 nucleoside and ≥ 1 quinoxaline [I, II; n = 0-4; R¹ = F, Cl, Br, iodo, CF₃, OCF₃, OH, alkyl, cycloalkyl, alkoxy, alkylthio, alkylsulfinyl, alkylsulfonyl, piperidino, amino, NO₂, N₃, thiomorpholino, cyano, acyloxy, acylamino, carbamoyl, CO₂H, (substituted) Ph, PhO, PhO₂C, PhS, pyridyl, etc.; R², R⁵ = H, OH, alkoxy, aryloxy, acyloxy, cyano, amino, alkylamino, dialkylamino, arylamino, acylamino, (substituted) alkyl, alkenyl, allenyl, alkynyl, etc.; R³, R⁴ = H, (substituted) alkyl, alkenyl, cycloalkyl, cycloalkenyl, aryl, aralkyl, heteroaryl, heteroarylalkyl; R³R⁴, R³R⁵ = atoms to form a (substituted) (unsatd.) (heterocyclic) ring; X = O, S, Se, NR₂], are claimed. Thus,

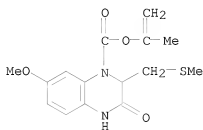
2,4-dichloronitrobenzene was refluxed with alanine in 2-methoxyethanol/aqueous NaOH to give 55% (S)-N-(3-chloro-6-nitrophenyl)alanine. The latter was hydrogenated in MeOH over Raney Ni to give (3S)-6-chloro-3-methyl-3,4-dihydroquinoxalin-2(1H)-one. Title compound (III) at 1-12 nM synergized the anti-HIV activity of AZT.

IT 146739-16-4P 146739-17-5P 146739-29-9P
146739-30-2P 146739-34-6P 146739-40-4P
146739-72-2P 168173-71-5P 168173-78-2P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(combination of quinoxalines and nucleosides for treating viral infection and preparation of the quinoxalines)

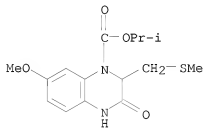
RN 146739-16-4 CAPLUS

CN 1(2H)-Quinoxalinecarboxylic acid, 3,4-dihydro-7-methoxy-2-[(methylthio)methyl]-3-oxo-, 1-methylethenyl ester (CA INDEX NAME)



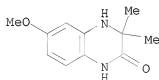
RN 146739-17-5 CAPLUS

CN 1(2H)-Quinoxalinecarboxylic acid, 3,4-dihydro-7-methoxy-2-[(methylthio)methyl]-3-oxo-, 1-methylethyl ester (CA INDEX NAME)



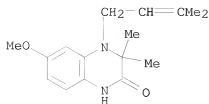
RN 146739-29-9 CAPLUS

CN 2(1H)-Quinoxalinone, 3,4-dihydro-6-methoxy-3,3-dimethyl- (CA INDEX NAME)

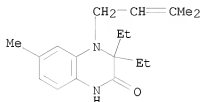


RN 146739-30-2 CAPLUS

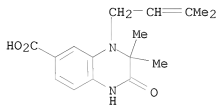
CN 2(1H)-Quinoxalinone, 3,4-dihydro-6-methoxy-3,3-dimethyl-4-(3-methyl-2-butenyl)- (9CI) (CA INDEX NAME)



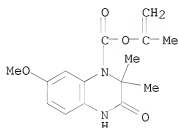
RN 146739-34-6 CAPLUS
 CN 2(1H)-Quinoxalinone, 3,3-diethyl-3,4-dihydro-6-methyl-4-(3-methyl-2-butenyl)- (9CI) (CA INDEX NAME)



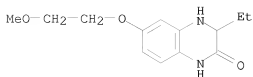
RN 146739-40-4 CAPLUS
 CN 6-Quinoxalinecarboxylic acid, 1,2,3,4-tetrahydro-3,3-dimethyl-4-(3-methyl-2-butenyl)-2-oxo- (9CI) (CA INDEX NAME)



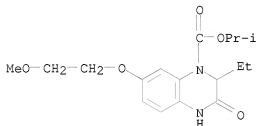
RN 146739-72-2 CAPLUS
 CN 1(2H)-Quinoxalinecarboxylic acid, 3,4-dihydro-7-methoxy-2,2-dimethyl-3-oxo-, 1-methylethenyl ester (CA INDEX NAME)



RN 168173-71-5 CAPLUS
 CN 2(1H)-Quinoxalinone, 3-ethyl-3,4-dihydro-6-(2-methoxyethoxy)- (CA INDEX NAME)



RN 168173-78-2 CAPLUS
 CN 1(2H)-Quinoxalinecarboxylic acid, 2-ethyl-3,4-dihydro-7-(2-methoxyethoxy)-3-oxo-, 1-methylethyl ester (CA INDEX NAME)



L32 ANSWER 50 OF 68 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1995:654834 CAPLUS

DOCUMENT NUMBER: 123:49761

TITLE: Synthesis of Novel Diphenyl Ether Herbicides

AUTHOR(S): Sumida, Motoo; Niwata, Shinjiro; Fukami, Harukazu; Tanaka, Takaharu; Wakabayashi, Ko; Boeger, Peter
 CORPORATE SOURCE: Institute for Biomedical Research, Suntory Limited, Osaka, 618, Japan

SOURCE: Journal of Agricultural and Food Chemistry (1995), 43(7), 1929-34

CODEN: JAFCAU; ISSN: 0021-8561

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 123:49761

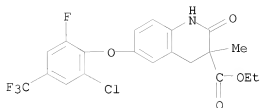
AB The benzoxazine derivs. are a new chemical family of di-Ph ether herbicides, which exhibit a strong peroxidizing herbicidal activity on mono- and dicotyledonous species in preemergence and postemergence tests. Twenty derivs. were synthesized, and their herbicidal activity was determined to examine structure-activity relationships. Among the compds. investigated, the fluorine atom introduction into the trifluoromethylbenzene moiety together with an oxazine ring instead of a nitro group led to the most active herbicide.

IT 164415-40-1P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation and reactions in preparation of benzoxazine herbicides)

RN 164415-40-1 CAPLUS

CN 3-Quinolinedicarboxylic acid, 6-[2-chloro-6-fluoro-4-(trifluoromethyl)phenoxy]-1,2,3,4-tetrahydro-3-methyl-2-oxo-, ethyl ester (CA INDEX NAME)



L32 ANSWER 51 OF 68 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1994:655665 CAPLUS

DOCUMENT NUMBER: 121:255665

ORIGINAL REFERENCE NO.: 121:46671a, 46674a

TITLE: Preparation of 4-iminoquinolines as virucides

INVENTOR(S): Billhardt-Troughton, Uta Maria; Rosner, Manfred;

Bender, Rudolf; Meichsner, Christoph

PATENT ASSIGNEE(S): Hoechst A.-G., Germany

SOURCE: Eur. Pat. Appl., 55 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: German

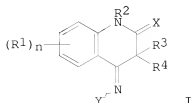
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 579968	A1	19940126	EP 1993-109965	19930622
EP 579968	B1	19990901		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
AT 184003	T	19990915	AT 1993-109965	19930622
ES 2136628	T3	19991201	ES 1993-109965	19930622
CA 2099213	A1	19931228	CA 1993-2099213	19930625
CA 2099213	C	20051129		
AU 9341492	A	19940106	AU 1993-41492	19930625
AU 670435	B2	19960718		
ZA 9304576	A	19940131	ZA 1993-4576	19930625
JP 06073012	A	19940315	JP 1993-154064	19930625
JP 3605123	B2	20041222		
HU 70040	A2	19950928	HU 1993-1875	19930625
IL 106147	A	19970610	IL 1993-106147	19930625
CN 1083477	A	19940309	CN 1993-108068	19930626
US 5602146	A	19970211	US 1995-372828	19950113
GR 3031853	T3	20000229	GR 1999-402947	19991117
PRIORITY APPLN. INFO.:			DE 1992-4221210	A 19920627
			US 1993-80845	B1 19930624

OTHER SOURCE(S): MARPAT 121:255665

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AB Title compds. [I; n = 0-4; R1 = F, Cl, Br, iodo, CF3, CF3O, OH, alkyl, cycloalkyl, alkoxy, alkylthio, alkylsulfinyl, alkylsulfonyl, nitro, amino, azido, acyl, acyloxy, acylamino, cyano, carbamoyl, carboxy, alkoxy carbonyl, hydroxysulfonyl, sulfamoyl, (substituted) Ph, PhO, PhO2C, etc.; X = O, S, Se, NR2, NOR2; Y = R6, OR6, NR6R7, N:CR6R7, CR6R7R8; R2, R6, R7, R8 = H, (substituted) alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkenyl, alkoxy carbonyl, alkylthiocarbonyl, alkylaminocarbonyl, etc.; R3, R4 = H, (substituted) alkyl, alkenyl, cycloalkyl, cycloalkenyl, aryl, arylalkyl, heteroaryl, heteroarylalkyl; R3R4 = CZ1Z2; Z1, Z2 = R3, with provisios), and tautomers, diastereomers, optical isomers, addition salts, and prodrugs thereof, were prepared Thus, 6-chloro-3,3-dimethyl-1,3-dihydroquinolin-2,4-dione (preparation given) was refluxed with O-ethylhydroxylamine hydrochloride in pyridine and the product was heated with Lawesson's reagent in PhMe to give anti-6-chloro-3,3-dimethyl-4-ethoxyimino-1,3-dihydroquinolin-2-thione. This inhibited HIV in T-cell cultures with a min. inhibitory concentration of <0.008 µg/mL, and inhibited HIV reverse transcriptase with IC50 = 0.004 µg/mL.

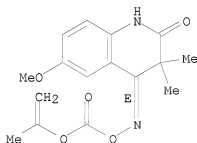
IT 158600-89-6P 158601-14-0P 158601-15-1P
158601-22-0P 158601-31-1P 158601-33-3P
158601-35-5P 158601-37-7P 158601-42-4P
158601-45-7P 158601-47-9P 158601-50-4P
158601-51-5P 158601-59-3P 158601-61-7P
158601-64-0P 158601-66-2P 158601-81-1P
158602-10-9P 158602-11-0P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of, as virucide)

RN 158600-89-6 CAPLUS

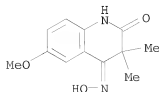
CN 2,4(1H,3H)-Quinolinedione, 6-methoxy-3,3-dimethyl-, 4-[O-[[1-(methylethenyl)oxy]carbonyl]oxime], (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

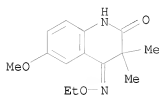


RN 158601-14-0 CAPLUS

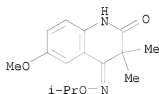
CN 2,4(1H,3H)-Quinolinedione, 6-methoxy-3,3-dimethyl-, 4-oxime (CA INDEX NAME)



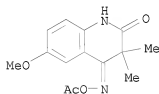
RN 158601-15-1 CAPLUS
 CN 2,4(1H,3H)-Quinolinedione, 6-methoxy-3,3-dimethyl-, 4-(O-ethyloxime) (CA INDEX NAME)



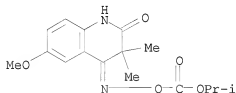
RN 158601-22-0 CAPLUS
 CN 2,4(1H,3H)-Quinolinedione, 6-methoxy-3,3-dimethyl-, 4-[O-(1-methylethyl)oxime] (CA INDEX NAME)



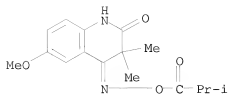
RN 158601-31-1 CAPLUS
 CN 2,4(1H,3H)-Quinolinedione, 6-methoxy-3,3-dimethyl-, 4-(O-acetyloxime) (CA INDEX NAME)



RN 158601-33-3 CAPLUS
 CN 2,4(1H,3H)-Quinolinedione, 6-methoxy-3,3-dimethyl-, 4-[O-[(1-methylethoxy)carbonyl]oxime] (9CI) (CA INDEX NAME)

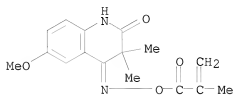


RN 158601-35-5 CAPLUS
 CN 2,4(1H,3H)-Quinolinedione, 6-methoxy-3,3-dimethyl-, 4-[O-(2-methyl-1-oxopropyl)oxime] (CA INDEX NAME)



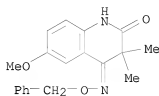
RN 158601-37-7 CAPLUS

CN 2,4(1H,3H)-Quinolinedione, 6-methoxy-3,3-dimethyl-, 4-[O-(2-methyl-1-oxo-2-propenyl)oxime] (CA INDEX NAME)



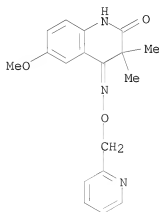
RN 158601-42-4 CAPLUS

CN 2,4(1H,3H)-Quinolinedione, 6-methoxy-3,3-dimethyl-, 4-[O-(phenylmethyl)oxime] (CA INDEX NAME)



RN 158601-45-7 CAPLUS

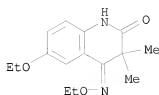
CN 2,4(1H,3H)-Quinolinedione, 6-methoxy-3,3-dimethyl-, 4-[O-(2-pyridinylmethyl)oxime] (CA INDEX NAME)



RN 158601-47-9 CAPLUS

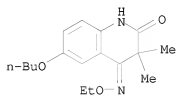
CN 2,4(1H,3H)-Quinolinedione, 6-ethoxy-3,3-dimethyl-, 4-(O-ethyloxime) (CA

INDEX NAME)



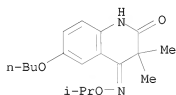
RN 158601-50-4 CAPLUS

CN 2,4(1H,3H)-Quinolinedione, 6-butoxy-3,3-dimethyl-, 4-(O-ethyloxime) (CA INDEX NAME)



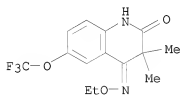
RN 158601-51-5 CAPLUS

CN 2,4(1H,3H)-Quinolinedione, 6-butoxy-3,3-dimethyl-, 4-[O-(1-methylethyl)oxime] (CA INDEX NAME)



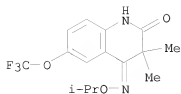
RN 158601-59-3 CAPLUS

CN 2,4(1H,3H)-Quinolinedione, 3,3-dimethyl-6-(trifluoromethoxy)-, 4-(O-ethyloxime) (CA INDEX NAME)

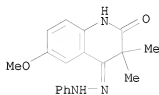


RN 158601-61-7 CAPLUS

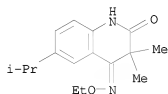
CN 2,4(1H,3H)-Quinolinedione, 3,3-dimethyl-6-(trifluoromethoxy)-, 4-[O-(1-methylethyl)oxime] (CA INDEX NAME)



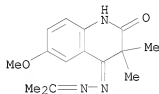
RN 158601-64-0 CAPLUS
 CN 2,4(1H,3H)-Quinolinedione, 6-methoxy-3,3-dimethyl-, 4-(phenylhydrazone)
 (9CI) (CA INDEX NAME)



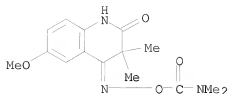
RN 158601-66-2 CAPLUS
 CN 2,4(1H,3H)-Quinolinedione, 3,3-dimethyl-6-(1-methylethyl)-,
 4-(O-ethyloxime) (CA INDEX NAME)



RN 158601-81-1 CAPLUS
 CN 2,4(1H,3H)-Quinolinedione, 6-methoxy-3,3-dimethyl-, 4-[(1-
 methylethylidene)hydrazone] (9CI) (CA INDEX NAME)

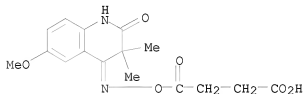


RN 158602-10-9 CAPLUS
 CN 2,4(1H,3H)-Quinolinedione, 6-methoxy-3,3-dimethyl-, 4-[O-
 [(dimethylamino)carbonyl]oxime] (9CI) (CA INDEX NAME)



RN 158602-11-0 CAPLUS

CN Butanoic acid, 4-[[2,3-dihydro-6-methoxy-3,3-dimethyl-2-oxo-4(1H)-quinolinylidene]amino]oxy]-4-oxo- (CA INDEX NAME)

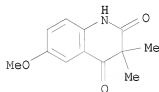


IT 158602-14-3P, 3,3-Dimethyl-6-methoxy-1,3-dihydroquinolin-2,4-dione

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as virucide intermediate)

RN 158602-14-3 CAPLUS

CN 2,4(1H,3H)-Quinolinedione, 6-methoxy-3,3-dimethyl- (CA INDEX NAME)



L32 ANSWER 52 OF 68 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1994:292147 CAPLUS

DOCUMENT NUMBER: 120:292147

ORIGINAL REFERENCE NO.: 120:51347a,51350a

TITLE: Preparation of quinolines as herbicides.

INVENTOR(S): Sakagami, Kimie; Fukami, Jiichi; Kawaguchi, Naoko;

Niwada, Shinjiro; Sago, Ryuichi; Igai, Keitaro

Suntory Ltd, Japan; Nat Federation Agric Coop Ass

Jpn. Kokai Tokkyo Koho, 9 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

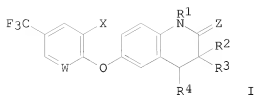
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 05339239	A	19931221	JP 1991-174160	19910715
PRIORITY APPLN. INFO.:			JP 1991-174160	19910715
OTHER SOURCE(S):	MARPAT	120:292147		

GI



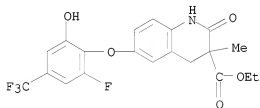
I

AB Quinolines I [W = N, CY; Y = H, halo; X = halo; Z = O, S; R1 = H, alkyl [substituted with halo, CN, OH, lower alkoxy, aliphatic acyloxy, (esterified or amidated) CO2H], lower alkenyl, lower alkynyl, acyl, phenylalkenyl; R2 = H, lower alkyl; R3 = H, (esterified or amidated) CO2H; R4 = H, lower alkyl] are prepared as herbicides. 6-Hydroxy-1,2,3,4-tetrahydro-2-oxoquinoline (3.16 g) was stirred with 4.15 g 3-chloro-4,5-difluorobenzotrifluoride and KOH in DMSO at 130° for 6 h to give 4.87 g 6-(2-chloro-6-fluoro-4-trifluoromethylphenoxy)-1,2,3,4-tetrahydro-2-oxoquinoline, which (0.5 g) was stirred with NaH in DMF for 1 h under ice cooling and stirred with 0.3 g MeI at room temperature for 1 h to give 0.49 g 6-(2-chloro-6-fluoro-4-trifluoromethylphenoxy)-1-methyl-1,2,3,4-tetrahydro-2-oxoquinoline (II). II (at 50 g/10 are) showed almost total preemergence and postemergence control of *Digitaria ciliaris*, *Echinochloa crus-galli*, *Portulaca oleracea*, and other weeds.

IT 154856-97-0P 154856-99-2P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation and herbicidal activity of)

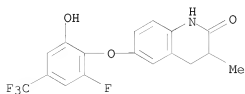
RN 154856-97-0 CAPLUS

CN 3-Quinolincarboxylic acid, 6-[2-fluoro-6-hydroxy-4-(trifluoromethyl)phenoxy]-1,2,3,4-tetrahydro-3-methyl-2-oxo-, ethyl ester (CA INDEX NAME)



RN 154856-99-2 CAPLUS

CN 2(1H)-Quinolone, 6-[2-fluoro-6-hydroxy-4-(trifluoromethyl)phenoxy]-3,4-dihydro-3-methyl- (CA INDEX NAME)



L32 ANSWER 53 OF 68 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1993:649974 CAPLUS

DOCUMENT NUMBER: 119:249974

ORIGINAL REFERENCE NO.: 119:44605a, 44608a

TITLE: Preparation of (2-imidazolin-2-ylamino)quinoxaline derivatives

INVENTOR(S): Gluchowski, Charles; Garst, Michael E.; Burke, James A.; Wheeler, Larry A.

PATENT ASSIGNEE(S): Allergan, Inc., USA

SOURCE: PCT Int. Appl., 42 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

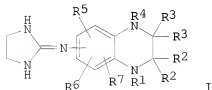
FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9313771	A1	19930722	WO 1993-US264	19930112
W: AT, AU, BB, BG, BR, CA, CH, DE, DK, ES, FI, GB, HU, JP, KP, KR, LK, LU, MG, MN, MW, NL, NO, NZ, PL, RO, RU, SD, SE				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, SN, TD, TG				
US 5231096	A	19930727	US 1992-820329	19920113
AU 9334700	A	19930803	AU 1993-34700	19930112
AU 670064	B2	19960704		
EP 620732	A1	19941026	EP 1993-903433	19930112
EP 620732	B1	20010404		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
JP 07503015	T	19950330	JP 1993-512627	19930112
AT 200222	T	20010415	AT 1993-903433	19930112
ES 2157216	T3	20010816	ES 1993-903433	19930112
CA 2127542	C	20040803	CA 1993-2127542	19930112
US 5326763	A	19940705	US 1993-10954	19930129
US 5373010	A	19941213	US 1994-195184	19940210
US 5418234	A	19950523	US 1994-298494	19940830
PRIORITY APPLN. INFO.:			US 1992-820329	A 19920113
			US 1989-420817	A3 19891012
			US 1990-560776	A2 19900731
			US 1991-758696	A2 19910912
			WO 1993-US264	A 19930112
			US 1993-10954	A3 19930129
			US 1994-195184	A3 19940210

OTHER SOURCE(S): MARPAT 119:249974

GI



AB Title compds. I (R1, R4 = H, C1-4 alkyl; R2 = H, C1-4 alkyl, (R2)2 = O; R3 = R2, (R3)2 = O; R5, R6, R7 = H, Ba, Cl, C1-3 alkyl) or a salt thereof, useful as drugs for reduction of pain, and as anesthetic, antiischemic, antiinflammatory and antidiarrhea agents, are prepared 4-

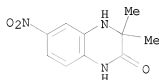
Nitrophenylenediamine in EtOH was added Pd/C, hydrogenated and HCl added to give 1,2,4-triaminobenzene 2HCl which was treated with glyoxal sodium bisulfite to give 6-aminoquinoxaline which was converted in 6 step was converted to I (R1-R4, R6 = R7 = H, R5 = 5-bromo). All I showed a therapeutic effect.

IT 150896-68-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, in preparation of drugs)

RN 150896-68-7 CAPLUS

CN 2(1H)-Quinoxalinone, 3,4-dihydro-3,3-dimethyl-6-nitro- (CA INDEX NAME)



L32 ANSWER 54 OF 68 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1993:234088 CAPLUS

DOCUMENT NUMBER: 118:234088

ORIGINAL REFERENCE NO.: 118:40551a, 40554a

TITLE: 3,4-dihydro-2-quinoxalinones, 3,4-dihydro-2-quinoxalinethiones and analogs, methods for their preparation and their use as virucides

INVENTOR(S): Billhardt, Uta Maria; Roesner, Manfred; Riess, Guenther; Winkler, Irvin; Bender, Rudolf

PATENT ASSIGNEE(S): Hoechst A.-G., Germany

SOURCE: Eur. Pat. Appl., 111 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: German

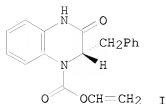
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 509398	A1	19921021	EP 1992-106158	19920409
EP 509398	B1	20010919		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, PT, SE				
DE 4142322	A1	19930701	DE 1991-4142322	19911220
AT 205837	T	20011015	AT 1992-106158	19920409
PT 509398	T	20020228	PT 1992-106158	19920409
ES 2164639	T3	20020301	ES 1992-106158	19920409
IL 101583	A	20000716	IL 1992-101583	19920413
CA 2065985	A1	19921016	CA 1992-2065985	19920414
AU 9214853	A	19921022	AU 1992-14853	19920414
AU 654178	B2	19941027		
ZA 9202722	A	19921125	ZA 1992-2722	19920414
CZ 293825	B6	20040818	CZ 1992-1136	19920414
HU 61004	A2	19921130	HU 1992-1288	19920415
HU 224439	B1	20050928		
JP 05148243	A	19930615	JP 1992-119936	19920415
US 6369057	B1	20020409	US 1995-418896	19950407
HK 1011971	A1	20020517	HK 1998-113024	19981209
PRIORITY APPLN. INFO.:				
			DE 1991-4112234	A 19910415
			DE 1991-4142322	A 19911220
			US 1992-867512	B2 19920413

OTHER SOURCE(S):
GI

CASREACT 118:234088; MARPAT 118:234088

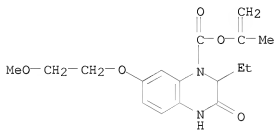


AB Some 3,4-dihydro-2-quinoxalinone derivs. and 3,4-dihydro-2-quinoxalinethione derivs. and nitrogen and selenium analogs thereof are claimed. Also claimed are 1,2,3,4-tetrahydro-2-(alkoxy)quinoxalines and 1,2,3,4-tetrahydro-2-(alkylthio)quinoxalines and selenium and nitrogen analogs thereof. A process for the preparation of said compds. is claimed. The use of said compds. as virucides, especially for the inhibition of HIV, is claimed. Acylation of (S)-3-benzyl-7-chloro-3,4-dihydroquinoxalin-2(1H)-one with vinyl chloroformate gave (S)-3-benzyl-7-chloro-3,4-dihydro-4-[(vinylloxy)carbonyl]quinoxalin-2(1H)-one (I). The min. inhibitory concentration of I for HIV-infected lymphocytes (5x10⁵ cells/mL) was <0.16 µg/mL. I inhibited HIV reverse transcriptase.

IT 146738-29-6P 146738-60-5P 146738-61-6P
146739-16-4P 146739-17-5P 146739-29-9P
146739-30-2P 146739-34-6P 146739-40-4P
146739-72-2P

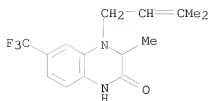
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as virucide (HIV inhibitor))
RN 146738-29-6 CAPLUS

CN 1(2H)-Quinoxalinecarboxylic acid, 2-ethyl-3,4-dihydro-7-(2-methoxyethoxy)-3-oxo-, 1-methylethenyl ester (CA INDEX NAME)



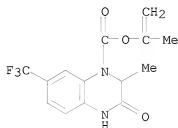
RN 146738-60-5 CAPLUS

CN 2(1H)-Quinoxalinone, 3,4-dihydro-3-methyl-4-(3-methyl-2-butenyl)-6-(trifluoromethyl)- (9CI) (CA INDEX NAME)



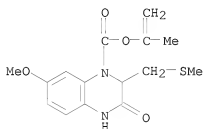
RN 146738-61-6 CAPLUS

CN 1(2H)-Quinoxalinecarboxylic acid, 3,4-dihydro-2-methyl-3-oxo-7-(trifluoromethyl)-, 1-methylethenyl ester (CA INDEX NAME)



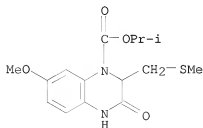
RN 146739-16-4 CAPLUS

CN 1(2H)-Quinoxalinecarboxylic acid, 3,4-dihydro-7-methoxy-2-[(methylthio)methyl]-3-oxo-, 1-methylethenyl ester (CA INDEX NAME)



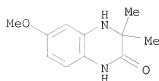
RN 146739-17-5 CAPLUS

CN 1(2H)-Quinoxalinecarboxylic acid, 3,4-dihydro-7-methoxy-2-[(methylthio)methyl]-3-oxo-, 1-methylethyl ester (CA INDEX NAME)



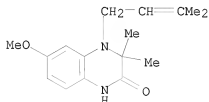
RN 146739-29-9 CAPLUS

CN 2(1H)-Quinoxalinone, 3,4-dihydro-6-methoxy-3,3-dimethyl- (CA INDEX NAME)



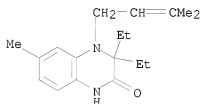
RN 146739-30-2 CAPLUS

CN 2(1H)-Quinoxalinone, 3,4-dihydro-6-methoxy-3,3-dimethyl-4-(3-methyl-2-butenyl)- (9CI) (CA INDEX NAME)



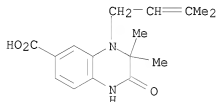
RN 146739-34-6 CAPLUS

CN 2(1H)-Quinoxalinone, 3,3-diethyl-3,4-dihydro-6-methyl-4-(3-methyl-2-butenyl)- (9CI) (CA INDEX NAME)



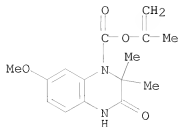
RN 146739-40-4 CAPLUS

CN 6-Quinoxalinecarboxylic acid, 1,2,3,4-tetrahydro-3,3-dimethyl-4-(3-methyl-2-butenyl)-2-oxo- (9CI) (CA INDEX NAME)

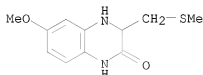


RN 146739-72-2 CAPLUS

CN 1(2H)-Quinoxalinecarboxylic acid, 3,4-dihydro-7-methoxy-2,2-dimethyl-3-oxo-, 1-methylethenyl ester (CA INDEX NAME)

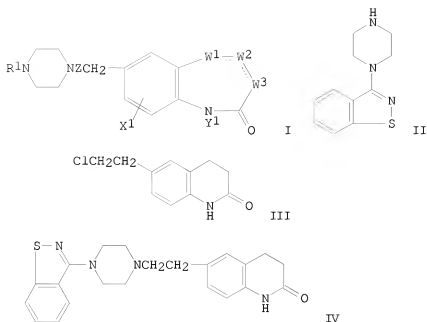


IT 14/245-28-1, 3,4-Dihydro-6-methoxy-3-[(methylthio)methyl]quinoxalin-2(1H)-one
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (reactant for (alkyl)dihydroquinoxalinone derivative (virucide, HIV inhibitor))
 RN 14/245-28-1 CAPLUS
 CN 2(1H)-Quinoxalinone, 3,4-dihydro-6-methoxy-3-[(methylthio)methyl]- (CA INDEX NAME)



L32 ANSWER 55 OF 68 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1991:492295 CAPLUS
 DOCUMENT NUMBER: 115:92295
 ORIGINAL REFERENCE NO.: 115:15891a,15894a
 TITLE: Preparation of heteroaryl piperazines as antipsychotic agents
 INVENTOR(S): Howard, Harry R.
 PATENT ASSIGNEE(S): Pfizer Inc., USA
 SOURCE: Eur. Pat. Appl., 20 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 409435	A1	19910123	EP 1990-307166	19900629
EP 409435	B1	19941026		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
WO 9100863	A1	19910124	WO 1989-US2954	19890707
W: FI, HU, NO, RO, SU, US				
ES 2062374	T3	19941216	ES 1990-307166	19900629
JP 03044388	A	19910226	JP 1990-176120	19900703
JP 07017633	B	19950301		
CA 2020611	A1	19910108	CA 1990-2020611	19900706
US 5350747	A	19940927	US 1992-836019	19920220
PRIORITY APPLN. INFO.:			WO 1989-US2954	A 19890707
OTHER SOURCE(S):	CASREACT	115:92295; MARPAT	115:92295	
GI				



AB The title compds. [I; W1 = CR2R3; W2 = CR4R5; W3 = CR6R7; 1 of W1-W3 may be absent; R1 = (substituted) benzisoxazolyl, benzisothiazolyl, benzopyrazolyl; R2-R7 = H, alkyl, 2 of them may form alkylene, alkenylene; X1 = H, halo, C1-4 alkyl, alkoxy, NO2, cyano, etc.; Y1 = H, C1-4 alkyl, (substituted) Ph, etc.; X1Y1 = heterocyclyl; Z = C1-6 alkylene], useful as antipsychotic agents (no data), were prepared A mixture of piperazine derivative

II, quinolinone III (preparation given), Na2CO3, and KI in MIBK was heated at 90° under N to give 13% title compound IV, separated as HCl.1/2 H2O.

Also prepared were 17 addnl. I and numerous intermediates.

IT 133998-79-5P 133998-80-8P 133998-92-2P

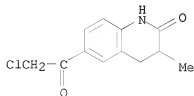
133998-94-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and reaction of, in preparation of antipsychotic agent)

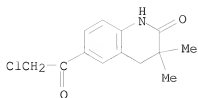
RN 133998-79-5 CAPLUS

CN 2(1H)-Quinolinone, 6-(chloroacetyl)-3,4-dihydro-3-methyl- (9CI) (CA INDEX NAME)

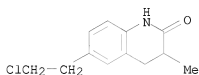


RN 133998-80-8 CAPLUS

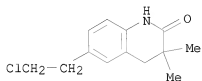
CN 2(1H)-Quinolinone, 6-(chloroacetyl)-3,4-dihydro-3,3-dimethyl- (9CI) (CA INDEX NAME)



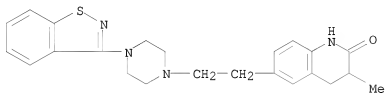
RN 133998-92-2 CAPLUS
 CN 2(1H)-Quinolinone, 6-(2-chloroethyl)-3,4-dihydro-3-methyl- (CA INDEX NAME)



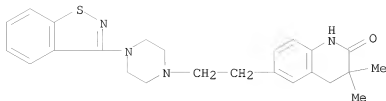
RN 133998-94-4 CAPLUS
 CN 2(1H)-Quinolinone, 6-(2-chloroethyl)-3,4-dihydro-3,3-dimethyl- (CA INDEX NAME)



IT 134017-22-4P 134017-24-6P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of, as antipsychotic agent)
 RN 134017-22-4 CAPLUS
 CN 2(1H)-Quinolinone, 6-[2-[4-(1,2-benzisothiazol-3-yl)-1-piperazinyl]ethyl]-3,4-dihydro-3-methyl- (CA INDEX NAME)



RN 134017-24-6 CAPLUS
 CN 2(1H)-Quinolinone, 6-[2-[4-(1,2-benzisothiazol-3-yl)-1-piperazinyl]ethyl]-3,4-dihydro-3,3-dimethyl- (CA INDEX NAME)



L32 ANSWER 56 OF 68 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1990:405516 CAPLUS
DOCUMENT NUMBER: 113:5516
ORIGINAL REFERENCE NO.: 113:1079a,1082a
TITLE: Imine-enamine tautomerism in the ion source
AUTHOR(S): Madhusudanan, K. P.; Borthakur, N.; Goswami, M.
CORPORATE SOURCE: Cent. Drug Res. Inst., Lucknow, 226 001, India
SOURCE: Indian Journal of Chemistry, Section B: Organic
Chemistry Including Medicinal Chemistry (1990),
29B(1), 14-17

CODEN: IJSBDB; ISSN: 0376-4699

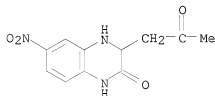
DOCUMENT TYPE: Journal
LANGUAGE: English

AB The electron impact induced fragmentation of 3-substituted quinoxalinones can be explained only by invoking an enamine-imine tautomerism in the ion source. Loss of CO from the mol. ion is characteristic of the enamine form, while imine form fragments mainly by the elimination of CH₂CO. The ratio of the ion abundances (M-CH₂CO)⁺/(M-CO)⁺ increases with increase in source temperature indicating a temperature-induced shift in the tautomeric equilibrium. A comparison of the electron impact, mass analyzed ion kinetic energy and collisional activation spectra show that the decomposing and nondecomposing mol. ions have different tautomeric equilibrium.

IT 75078-75-0
RL: PRP (Properties)
(mass spectrum of)

RN 75078-75-0 CAPLUS

CN 2(1H)-Quinoxalinone, 3,4-dihydro-6-nitro-3-(2-oxopropyl)- (CA INDEX NAME)



L32 ANSWER 57 OF 68 CAPLUS COPYRIGHT 2008 ACS on STN

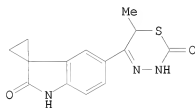
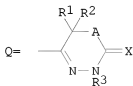
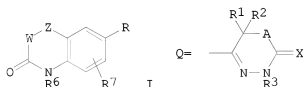
ACCESSION NUMBER: 1989:497293 CAPLUS
DOCUMENT NUMBER: 111:97293
ORIGINAL REFERENCE NO.: 111:16377a,16380a
TITLE: Preparation of substituted thiadiazinylindolones or-quinolones useful in the treatment of heart or asthmatic diseases

INVENTOR(S): Martin, Michel; Nadler, Guy; Zimmermann, Richard
PATENT ASSIGNEE(S): Laboratoires Sobio S. A., Fr.
SOURCE: Eur. Pat. Appl., 59 pp.

DOCUMENT TYPE: CODEN: EPXXDW
 LANGUAGE: Patent
 FAMILY ACC. NUM. COUNT: 1 English
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 303418	A2	19890215	EP 1988-307281	19880805
EP 303418	A3	19901107		
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
DK 8804452	A	19890212	DK 1988-4452	19880809
AU 8820566	A	19890216	AU 1988-20566	19880809
ZA 8805841	A	19890927	ZA 1988-5841	19880809
US 4933336	A	19900612	US 1988-230314	19880809
JP 01110681	A	19890427	JP 1988-198136	19880810
PRIORITY APPLN. INFO.:			GB 1987-18957	A 19870811
			GB 1988-11276	A 19880512

OTHER SOURCE(S): MARPAT 111:97293
 GI



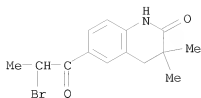
III

AB The title compds. [I; R = Q; R1 = H, lower alkyl, CH2OR6; R2, R3 = H, lower alkyl; W, Z = different CR4R5, (CR8R9)n; R4 = H, C1-3 alkyl, C1-3 alkylthio, C1-3 alkoxy; R5 = C1-3 alkyl, C1-3 alkylthio, C1-3 alkoxy; or CR4R5 = 3 to 6-membered carbocyclic ring or heterocyclic ring containing 1 or 2 ring O, N, or S; or R4R5 = O, CH2; R6 = H, lower alkyl, alkylcarbonyl, heteroarylcarbonyl, aralkylcarbonyl, (un)substituted CONH2, lower alkoxy carbonyl, aryloxy carbonyl; R7 = H, lower alkyl; R8, R9 = H, C1-3 alkyl; n = 0, 1; X = O, S; A = O, S] (II), were prepared 5-[(2-Chloro-1-oxo)propyl]-spiro[cyclopropane-1,3'-[3H]-indol]-2'-(1'H)-one (preparation given), MeOC(S)NHNH2, and MeCN were refluxed 6 h to give 49% thiadiazinyllindolone (III). III at 0.03 mg/kg p.o. showed cardiotoxic activity in male beagle dogs with first derivative of left ventricular pressure (dP/dt, mmHg/s) = +105 and heart rate (beats/min) = +21.

IT 122281-25-8P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of, as intermediate for cardiotoxic and antiasthmatic thiadiazinyllindolone and -quinolone)

RN 122281-25-8 CAPLUS

CN 2(1H)-Quinolinone, 6-(2-bromo-1-oxopropyl)-3,4-dihydro-3,3-dimethyl- (CA INDEX NAME)



L32 ANSWER 58 OF 68 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1989:154319 CAPLUS

DOCUMENT NUMBER: 110:154319

ORIGINAL REFERENCE NO.: 110:25527a,25530a

TITLE: Preparation of 6-heterocyclylcarbostyryl derivatives for treatment of heart diseases

INVENTOR(S): Tamada, Shigeharu; Fujioka, Takafumi; Ogawa, Hidenori; Teramoto, Shuji; Kondo, Kazumi

PATENT ASSIGNEE(S): Otsuka Pharmaceutical Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 30 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

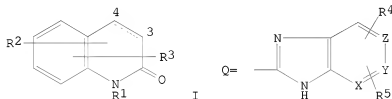
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 63230687	A	19880927	JP 1987-65202	19870318
JP 07121937	B	19951225		
PRIORITY APPLN. INFO.:			JP 1987-65202	19870318
OTHER SOURCE(S):	MARPAT	110:154319		

GI



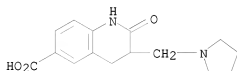
I

AB The title compds. [I, R1 = H, lower alkyl, lower alkenyl, phenyl-lower alkyl; R2 = Q (wherein X, Y, Z = CH or N, R4, R5 = H, lower alkoxy, halo, or NH2); R3 = H, halo, NO2, NH2, lower alkanoylamino, lower alkoxy, OH, lower alkyl, lower alkylthio, saturated 5- or 6-membered (lower alkyl) heterocyclyl, 5- or 6-membered heterocyclyl-lower alkyl; the linkage between 3- and 4-position is a single or double bond] were prepared as cardiotonics, etc. 7-Methoxy-6-carboxy-3,4-dihydrocarbostyryl 0.3 and 3,4-diaminopyridine 0.16 g were added to a 1:10 mixture of P2O5 and Me2SO3H. The mixture was heated 2 h at 100°, poured into ice-water, and made weakly alkaline with 10% aqueous NaOH and saturated NaHCO3. The precipitated

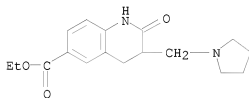
crystals were

removal by filtration, washed with H2O, dried and purified on a silica gel chromatog. to give, after acidification with HCl in EtOH, 0.29 g 7-methoxy-6-[1H-imidazo[4,5-c]pyridin-2-yl]-3,4-dihydrocarbostyryl (II)-HCl.H2O. II.HCl.H2O at 300 n mol increased myocardial contractility 23.1% and coronary blood flow 0.4 mL/min in dog heart in vitro. 1 mL ampules were formulated from II 500, polyethyleneglycol 0.3, NaCl 0.9,

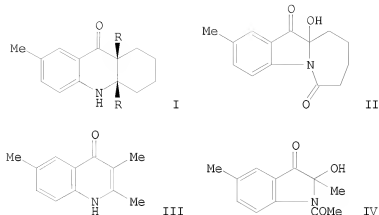
polyoxyethylenesorbitan monooleate 0.4, sodium metabisulfite 0.1, methylparaben 0.18, propylparaben 0.02 g, and water 100 mL.
 IT 119715-08-1P 119715-18-3P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of, as intermediate for heterocycliclcarbostyryl cardiotonic)
 RN 119715-08-1 CAPLUS
 CN 6-Quinolinedicarboxylic acid, 1,2,3,4-tetrahydro-2-oxo-3-(1-pyrrolidinylmethyl)- (CA INDEX NAME)



RN 119715-18-3 CAPLUS
 CN 6-Quinolinedicarboxylic acid, 1,2,3,4-tetrahydro-2-oxo-3-(1-pyrrolidinylmethyl)-, ethyl ester (CA INDEX NAME)



L32 ANSWER 59 OF 68 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1989:114666 CAPLUS
 DOCUMENT NUMBER: 110:114666
 ORIGINAL REFERENCE NO.: 110:18905a,18908a
 TITLE: Chlorine-free oxidation products from sodium hypochlorite acting on a 1,2,3,4-tetrahydro-9(10H)-acridinone and on a related 4(1H)-quinolinone
 AUTHOR(S): Boeyens, Jan C. A.; Denner, Louis; Marais, Johannes L. C.; Staskun, Benjamin
 CORPORATE SOURCE: Dep. Chem., Univ. Witwatersrand, S. Afr.
 SOURCE: South African Journal of Chemistry (1988), 41(2), 63-7
 CODEN: SAJCDG; ISSN: 0379-4350
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI



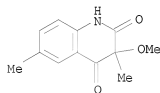
AB Treatment of tetrahydroacridinone I (R2 = bond) with NaOCl in aqueous alkali-methanol solution gave a mixture of cis-diol derivative I (R = OH) and azepinoindole II; the structure of the latter product was established from x-ray crystallog. anal. Mol. mechanics simulation indicated that the formation of a ten-membered macrocyclic precursor for II was not favored stereochem. From the corresponding quinolinone III and NaOCl, indolone IV was obtained. Possible mechanistic pathways leading to the resp. products are discussed.

IT 119373-47-6P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 119373-47-6 CAPLUS

CN 2,4(1H,3H)-Quinolinedione, 3-methoxy-3,6-dimethyl- (CA INDEX NAME)



L32 ANSWER 60 OF 68 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1988:630841 CAPLUS

DOCUMENT NUMBER: 109:230841

ORIGINAL REFERENCE NO.: 109:38177a,38180a

TITLE: Synthesis of 3,4-dihydro-4-methyl-2-(3-quinolyl)-2H-pyrano[3,2-c]quinolines

AUTHOR(S): Kumaraswami, K.; Shanmugam, P.

CORPORATE SOURCE: Dep. Chem., Bharathiar Univ., Coimbatore, 641 046, India

SOURCE: Tetrahedron Letters (1988), 29(18), 2235-7

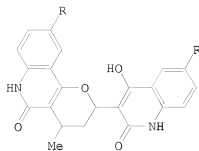
CODEN: TELEAY; ISSN: 0040-4039

DOCUMENT TYPE: Journal

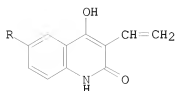
LANGUAGE: English

OTHER SOURCE(S): CASREACT 109:230841

GI



I



II

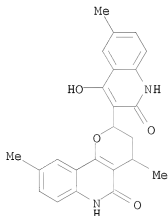
AB Attempted Dieckmann cyclization of 4,2-R(MeO2C)C6H3NHC(=O)CH2CH=CH2 (R = H, Me, Br) gave instead dihydropyrano[3,2-c]quinolines I from a cycloaddn. of the vinyl group in the initially formed cyclization product II with the heterodiene of its tautomer.

IT 117586-98-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and chlorination of, with phosphorus oxychloride)

RN 117586-98-8 CAPLUS

CN 5H-Pyrano[3,2-c]quinolin-5-one, 2-(1,2-dihydro-4-hydroxy-6-methyl-2-oxo-3-quinolinyl)-2,3,4,6-tetrahydro-4,9-dimethyl- (CA INDEX NAME)



L32 ANSWER 61 OF 68 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1987:636662 CAPLUS

DOCUMENT NUMBER: 107:236662

ORIGINAL REFERENCE NO.: 107:38024h,38025a

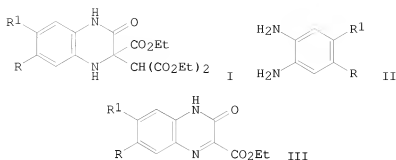
TITLE: The reaction of tetraethoxycarbonylethylene with aromatic 1,2-diamines

AUTHOR(S): Yamada, Yoichi; Kishi, Kunio; Yasuda, Heinosuke
CORPORATE SOURCE: Coll. Educ., Utsunomiya Univ., Utsunomiya, Japan
SOURCE: Utsunomiya Daigaku Kyoikugakubu Kiyo, Dai-2-bu (1987), 37, 49-55

CODEN: UDKKBI; ISSN: 0385-2415

DOCUMENT TYPE: Journal
LANGUAGE: Japanese

GI



AB Tetrahydroquinoxalines I (R = R1 = H, Me; R = Me, R1 = H; R = Cl, R1 = H) were prepared in >75% yield by reaction of (EtO2C)2C:C(CO2Et)2 with phenylenediamines II in EtOH for 2 h., whereas the reaction in EtOH for 72 h. at 100° gave I as well as decomposed products III and CH2(CO2Et)2. The rate of decomposition of I to III was increased with an increasing number

of

Me groups in I.

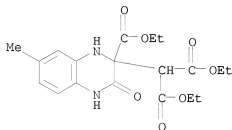
IT 111425-79-7P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of)

RN 111425-79-7 CAPLUS

CN Propanedioic acid, [2-(ethoxycarbonyl)-1,2,3,4-tetrahydro-7-methyl-3-oxo-2-quinoxalinylnyl]-, diethyl ester (9CI) (CA INDEX NAME)



L32 ANSWER 62 OF 68 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1983:438344 CAPLUS

DOCUMENT NUMBER: 99:38344

ORIGINAL REFERENCE NO.: 99:6021a,6024a

TITLE: Suicide inhibitors of proteases. Lack of activity of halomethyl derivatives of some aromatic lactams

AUTHOR(S): Decodts, Guy; Wakselman, Michel

CORPORATE SOURCE: CERCOA, CNRS, Thiais, 94320, Fr.

SOURCE: European Journal of Medicinal Chemistry (1983), 18(2), 107-11

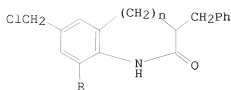
CODEN: EJMCAS; ISSN: 0009-4374

DOCUMENT TYPE: Journal

LANGUAGE: English

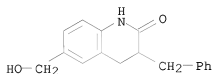
OTHER SOURCE(S): CASREACT 99:38344

GI

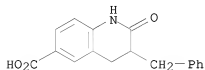


I

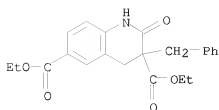
- AB The lactams I ($n = 1, 2$, $R = H$) were prepared via reductive cyclization of 2,5-O₂N(EtO₂C)C₆H₃CH₂C(CO₂Et)₂CH₂Ph or 2,5-O₂N(EtO₂C)C₆H₃CH(CO₂Et)₂, resp. I ($n = 2$, $R = NO_2$) was obtained by nitrating I ($n = 2$, $R = H$). I have a latent electrophilic quinonimine methide function and a benzyl side chain, both characteristic of α -chymotrypsin substrates, but are inactive against this enzyme.
- IT 86400-54-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and chlorination of)
- RN 86400-54-6 CAPLUS
- CN 2(1H)-Quinolinone, 3,4-dihydro-6-(hydroxymethyl)-3-(phenylmethyl)- (CA INDEX NAME)



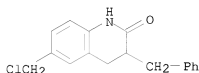
- IT 86400-53-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reduction of)
- RN 86400-53-5 CAPLUS
- CN 6-Quinolinecarboxylic acid, 1,2,3,4-tetrahydro-2-oxo-3-(phenylmethyl)- (CA INDEX NAME)



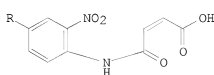
- IT 86413-23-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation, hydrolysis, and decarboxylation of)
- RN 86413-23-2 CAPLUS
- CN 3,6-Quinolinedicarboxylic acid, 1,2,3,4-tetrahydro-2-oxo-3-(phenylmethyl)-, diethyl ester (9CI) (CA INDEX NAME)



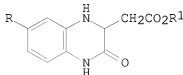
IT 86400-55-7P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (preparation, nitration, and chymotrypsin-inhibiting activity of)
 RN 86400-55-7 CAPLUS
 CN 2(1H)-Quinolinone, 6-(chloromethyl)-3,4-dihydro-3-(phenylmethyl)- (CA
 INDEX NAME)



L32 ANSWER 63 OF 68 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1983:215569 CAPLUS
 DOCUMENT NUMBER: 98:215569
 ORIGINAL REFERENCE NO.: 98:32781a,32784a
 TITLE: Reactions of cyclic anhydrides. Part VII. Reductive
 cyclization of 2-nitromaleanilates and
 2-nitrofumaranylates, a new synthesis of
 2-oxo-1,2,3,4-tetrahydroquinoxalines
 Wagh, S. B.; Balasubramanian, P.; Balasubramanian,
 V.
 AUTHOR(S): Sci. Res. Cent., R. Y. K. Sci. Coll., Nasik, 422 005,
 India
 CORPORATE SOURCE: Indian Journal of Chemistry, Section B: Organic
 Chemistry Including Medicinal Chemistry (1982),
 SOURCE: 21B(12), 1071-3
 CODEN: IJSBDB; ISSN: 0376-4699
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 98:215569
 GI



I



II

AB Fusion of o-nitroanilines with maleic anhydride in the presence of anhydrous
 AlCl3 at 80-100° selectively furnishes the corresponding maleanilic
 acids I (R = Cl, Me, MeO, H) and at 160-200, the fumaranilic acids in

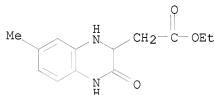
excellent yields. Their methyl/ethyl esters on reductive cyclization with W-2 Raney nickel (40 psi, 2 h, ethanol, 25°) give 1,2,3,4-tetrahydro-2-oxo-3-quinoxalineacetates II CR = Cl, Me, MeO, H, R1 = Et; R = Cl, R1 = Me) in 70-80% yield.

IT 85919-02-4P 85919-03-5P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

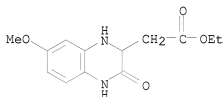
RN 85919-02-4 CAPLUS

CN 2-Quinoxalineacetic acid, 1,2,3,4-tetrahydro-7-methyl-3-oxo-, ethyl ester
(CA INDEX NAME)



RN 85919-03-5 CAPLUS

CN 2-Quinoxalineacetic acid, 1,2,3,4-tetrahydro-7-methoxy-3-oxo-, ethyl ester
(CA INDEX NAME)



L32 ANSWER 64 OF 68 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1982:123047 CAPLUS

DOCUMENT NUMBER: 96:123047

ORIGINAL REFERENCE NO.: 96:20213a,20216a

TITLE: Synthesis of quinoline alkaloids and related compounds. Synthesis of zanthophylline and a new synthesis of 3,3-bis(γ,γ -dimethylallyl)-N-methyl-2,4-dioxo-1,2,3,4-tetrahydroquinoline

AUTHOR(S): Venturella, Pietro; Bellino, Aurora; Marino, Maria Luisa

CORPORATE SOURCE: Inst. Org. Chem., Univ. Palermo, Palermo, 90123, Italy

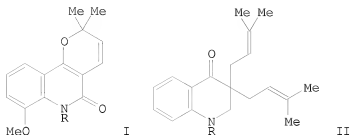
SOURCE: Heterocycles (1981), 16(11), 1873-7

CODEN: HTCYAM; ISSN: 0385-5414

DOCUMENT TYPE: Journal

LANGUAGE: English

GI

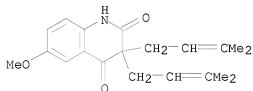


AB Zanthophylline (I, R = CH₂OAc) was prepared by alkylation of 8-methoxyflindersine (I, R = H) with AcOCH₂Cl. The isoquinoline II (R = Me) was prepared by direct methylation of II (R = H).

IT 56470-54-3
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (methylation of)

RN 56470-54-3 CAPLUS

CN 2,4(1H,3H)-Quinolinedione, 6-methoxy-3,3-bis(3-methyl-2-butenyl)- (9CI)
 (CA INDEX NAME)



L32 ANSWER 65 OF 68 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1982:122752 CAPLUS

DOCUMENT NUMBER: 96:122752

ORIGINAL REFERENCE NO.: 96:20161a,20164a

TITLE: Hindered amines. Part 4. 3,3-Dialkyl-1,2,3,4-tetrahydro-2-quinoxalinones and cis- and trans-3,3-dialkyldecahydro-2-quinoxalinones

AUTHOR(S): Lai, John T.

CORPORATE SOURCE: BF Goodrich Co., Res. Dev. Cent., Brecksville, OH, 44141, USA

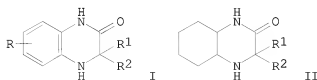
SOURCE: Synthesis (1982), (1), 71-4

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 96:122752

GI



AB Tetrahydroquinoxalinones I [R = H; R1 = Me, R2 = Me, hexyl; R1R2 = (CH₂)₄,

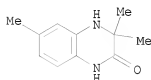
(CH₂)₅] were obtained by treating o-(H₂N)2C₆H₄ with R₁R₂CO and CHCl₃. I (R = 6-Me, 7-Me, 6-Cl, 7-Cl, R₁ = R₂ = Me) were obtained from 3,4-(H₂N)2C₆H₃R and Cl₃CCMe₂OH. Rh-C hydrogenation of I (R = H) gave cis-II. trans-II were obtained from HOClR₁R₂CN and 1,2-cyclohexanediamine.

IT 81016-65-1P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 81016-65-1 CAPLUS

CN 2(1H)-Quinoxalinone, 3,4-dihydro-3,3,6-trimethyl- (CA INDEX NAME)



L32 ANSWER 66 OF 68 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1981:147502 CAPLUS

DOCUMENT NUMBER: 94:147502

ORIGINAL REFERENCE NO.: 94:24017a,24020a

TITLE: Electrochemical modeling of the dehydrogenation of heterocycles. Oxidation of 3,4-dihydroquinoxalin-2-one derivatives

AUTHOR(S): Sosonkin, I. M.; Strogov, G. N.; Charushin, V. N.; Chupakhin, O. N.

CORPORATE SOURCE: Vses. Nauchno-Issled. Proektn., Sverdlovsk, 620002, USSR

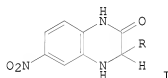
SOURCE: Khimiya Geterotsiklicheskikh Soedinenii (1981), (2), 261-3

CODEN: KGSSAQ; ISSN: 0453-8234

DOCUMENT TYPE: Journal

LANGUAGE: Russian

GI

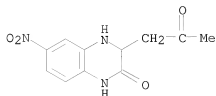


AB To quant. evaluate the resistance of the dihydro compds. I (where R = 2-hydroxycyclohexyl, CH(COMe)CO₂Et, and CH₂COMe) toward oxidation and the appearance of peculiarities in their dehydrogenation, the principles were studied of the electrochem. oxidation of I on a rotating ring-disk electrode in DMF. Thus, a study of the electrochem. behavior of the products of addition of ketones to 6-nitroquinoxalin-2-ones showed that they are oxidized with subsequent splitting off of 2 electrons (E) and 2 protons (P); and depending on the acid-base properties of the medium the sequence is EPEP or PEEP.

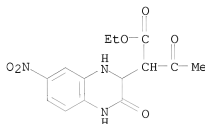
IT 75078-75-0 75078-77-2 75078-80-7

RL: RCT (Reactant); RACT (Reactant or reagent)
(oxidation of, electrochem., modeling of)

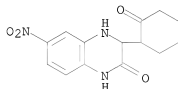
RN 75078-75-0 CAPLUS
CN 2(1H)-Quinoxalinone, 3,4-dihydro-6-nitro-3-(2-oxopropyl)- (CA INDEX NAME)



RN 75078-77-2 CAPLUS
CN 2-Quinoxalineacetic acid, α -acetyl-1,2,3,4-tetrahydro-7-nitro-3-oxo-, ethyl ester (CA INDEX NAME)



RN 75078-80-7 CAPLUS
CN 2(1H)-Quinoxalinone, 3,4-dihydro-6-nitro-3-(2-oxocyclohexyl)- (CA INDEX NAME)



L32 ANSWER 67 OF 68 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1981:15669 CAPLUS

DOCUMENT NUMBER: 94:15669

ORIGINAL REFERENCE NO.: 94:2623a,2626a

TITLE: Reactions of azines and azinones with enamines.
Cyclization through the ortho-binding of a
heteroaromatic system in a reaction with quinoxaline
derivatives

AUTHOR(S): Chupakhin, O. N.; Charushin, V. N.; Shnurov, Yu. V.

CORPORATE SOURCE: Ural. Politekh. Inst., Sverdlovsk, USSR

SOURCE: Zhurnal Organicheskoi Khimii (1980), 16(5), 1064-71

CODEN: ZORKAE; ISSN: 0514-7492

DOCUMENT TYPE: Journal

LANGUAGE: Russian

OTHER SOURCE(S): CASREACT 94:15669

GI For diagram(s), see printed CA Issue.

AB Enamines of aldehydes and ketones react with 6-nitro-2-quinoxalone to give
products of addition at the 3 position [I; R = CH₂COMe, CH(COMe)₂,
CH(COMe)CO₂Et, CMe₂CHO, 2-oxocyclopentyl, 2-oxocyclohexyl] in 35-77%

yield. Diazatricyclo compds. II (n = 2, 3; R1 = Me, Et; R2 = H, Me) were obtained in 45-70% yield by reaction of the quinoxalinium salt III, with the corresponding enamines, e.g., 1-morpholinocyclohexene or 1-pyrrolidinocyclohexene.

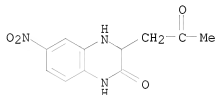
IT 75078-75-0P 75078-76-1P 75078-77-2P

75078-79-4P 75078-80-7P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(preparation and spectra of)

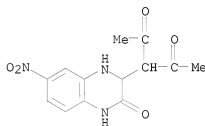
RN 75078-75-0 CAPLUS

CN 2(1H)-Quinoxalinone, 3,4-dihydro-6-nitro-3-(2-oxopropyl)- (CA INDEX NAME)



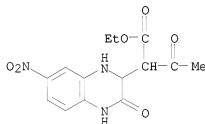
RN 75078-76-1 CAPLUS

CN 2,4-Pentanedione, 3-(1,2,3,4-tetrahydro-7-nitro-3-oxo-2-quinoxalinyl)-
(CA INDEX NAME)



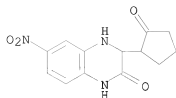
RN 75078-77-2 CAPLUS

CN 2-Quinoxalineacetic acid, α-acetyl-1,2,3,4-tetrahydro-7-nitro-3-oxo-
, ethyl ester (CA INDEX NAME)

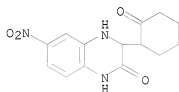


RN 75078-79-4 CAPLUS

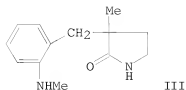
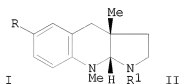
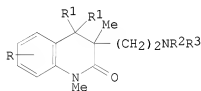
CN 2(1H)-Quinoxalinone, 3,4-dihydro-6-nitro-3-(2-oxocyclopentyl)- (CA INDEX
NAME)



RN 75078-80-7 CAPLUS
 CN 2(1H)-Quinoxalinone, 3,4-dihydro-6-nitro-3-(2-oxocyclohexyl)- (CA INDEX NAME)



L32 ANSWER 68 OF 68 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1980:76342 CAPLUS
 DOCUMENT NUMBER: 92:76342
 ORIGINAL REFERENCE NO.: 92:12571a,12574a
 TITLE: Synthetic studies on pyrroloquinolines. Part 5. Preparation of hydrogenated 3a-methylpyrrolo[2,3-b]quinolines
 AUTHOR(S): Iwakuma, Takeo; Miyazaki, Michihiko; Mashimo, Kiyohiko; Tanaka, Tadasu; Aoe, Keiichi; Nagahashi, Masamitsu; Date, Tadamasa; Kotera, Keishi
 CORPORATE SOURCE: Org. Chem. Res. Lab., Tanaba Seiyaku Co. Ltd., Saitama, Japan
 SOURCE: Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1972-1999) (1979), (9), 2162-6
 CODEN: JCPRB4; ISSN: 0300-922X
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI

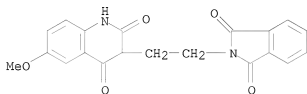


AB Reductive cyclization (Na-EtOH) of the quinolone I (R = R1 = R2 = R3 = H), derived from I (R = 7-Cl, R12 = O, R2R3 = phthaloyl) by sequential catalytic hydrogenation and dephthaloylation, gave 30% pyrroloquinoline II (R = R1 = H) and 26% pyrrolidone III. The stereochem. of the B-C ring junction of II (R = R1 = H) was determined by x-ray crystallog. anal. of II (R = OMe, R1 = H).HCl. Clarke-Eschweiler methylation of II (R = OMe, R1 = H) gave a low yield of II (R = OMe, R1 = Me); this compound was better prepared (40.1%) by reduction (Na-EtOH) of I (R = 6-OMe, R1 = H, R2 = Me, R3 = CO2Et), derived from I (R = 6-OMe, R1 = R2 = R3 = H) by sequential ethoxycarbonylation (NaOH-ClCO2Et) and methylation (MeI-DMF-NaH).

IT 72729-78-3P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and methylation of)

RN 72729-78-3 CAPLUS

CN 2,4(1H,3H)-Quinolinedione, 3-[2-(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)ethyl]-6-methoxy- (CA INDEX NAME)



=> DHIS
 DHIS IS NOT A RECOGNIZED COMMAND
 The previous command name entered was not recognized by the system.
 For a list of commands available to you in the current file, enter
 "HELP COMMANDS" at an arrow prompt (=>).

=> D HIS

(FILE 'HOME' ENTERED AT 09:43:22 ON 08 MAY 2008)

FILE 'REGISTRY' ENTERED AT 09:43:41 ON 08 MAY 2008

L1 STRUCTURE UPLOADED

L2 50 S L1

L3 10264 S L1 SSS FULL

FILE 'CAPLUS' ENTERED AT 09:44:37 ON 08 MAY 2008

L4 299 S L3

FILE 'REGISTRY' ENTERED AT 09:57:37 ON 08 MAY 2008

L5 STRUCTURE UPLOADED

L6 21 S L5

L7 11355 S L6 SSS FULL

FILE 'CAPLUS' ENTERED AT 09:59:35 ON 08 MAY 2008

FILE 'REGISTRY' ENTERED AT 10:04:01 ON 08 MAY 2008

L8 STRUCTURE UPLOADED

L9 STRUCTURE UPLOADED

L10 0 S L8

L11 105 S L8 SSS FULL

L12 21 S L9

L13 10576 S L9 SSS FULL

L14 STRUCTURE UPLOADED
L15 50 S L14
L16 STRUCTURE UPLOADED
L17 21 S L16
L18 10559 S L16 SSS FULL
L19 STRUCTURE UPLOADED
L20 1 S L19
L21 12 S L19 SSS FULL
L22 10676 S L21 OR L18 OR L11

FILE 'CAPLUS' ENTERED AT 10:13:35 ON 08 MAY 2008
L23 551 S L22
L24 STRUCTURE UPLOADED
 S L24

FILE 'REGISTRY' ENTERED AT 10:21:28 ON 08 MAY 2008
L25 50 S L24

FILE 'CAPLUS' ENTERED AT 10:21:29 ON 08 MAY 2008
L26 2 S L25
 S L24

FILE 'REGISTRY' ENTERED AT 10:21:41 ON 08 MAY 2008
L27 9835 S L24 SSS FULL

FILE 'CAPLUS' ENTERED AT 10:21:43 ON 08 MAY 2008
L28 231 S L27 SSS FULL
 S L24 NOT L28

FILE 'REGISTRY' ENTERED AT 10:21:59 ON 08 MAY 2008
L29 50 S L24

FILE 'CAPLUS' ENTERED AT 10:22:00 ON 08 MAY 2008
L30 2 S L29
L31 0 S L30 NOT L28
L32 68 S L4 NOT L28
L33 299 S L32 OR L28

=> D L28 1-5

L28 ANSWER 1 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2008:237568 CAPLUS
DN 148:393737
TI Docking Study Yields Four Novel Inhibitors of the Protooncogene Pim-1
Kinase
AU Pierce, Albert C.; Jacobs, Marc; Stuver-Moody, Cameron
CS Vertex Pharmaceuticals, Incorporated, Cambridge, MA, 02139, USA
SO Journal of Medicinal Chemistry (2008), 51(6), 1972-1975
CODEN: JMCMAR; ISSN: 0022-2623
PB American Chemical Society
DT Journal
LA English
RE.CNT 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 2 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2008:194147 CAPLUS
DN 148:426840
TI Discovery of potent pteridine reductase inhibitors to guide antiparasite
drug development
AU Cavazzuti, Antonio; Paglietti, Giuseppe; Hunter, William N.; Gamarro,
Francisco; Piras, Sandra; Loriga, Mario; Alleca, Sergio; Corona, Paola;

McLuskey, Karen; Tulloch, Lindsay; Gibellini, Federica; Ferrari, Stefania;
 Costi, Maria Paola
 CS Dipartimento di Scienze Farmaceutiche, Università di Modena e Reggio
 Emilia, Modena, 41100, Italy
 SO Proceedings of the National Academy of Sciences of the United States of
 America (2008), 105(5), 1448-1453
 CODEN: PNASA6; ISSN: 0027-8424
 PB National Academy of Sciences
 DT Journal
 LA English
 RE.CNT 64 THERE ARE 64 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 3 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2007:1452342 CAPLUS
 DN 148:158850
 TI Comparative Molecular Field Analysis of quinoline derivatives as selective
 and noncompetitive mGluR1 antagonists
 AU Sekhar, Y. Nataraja; Nayana, M. Ravi Shashi; Ravikumar, Muttineni;
 Mahmood, S. k.
 CS Bioinformatics Division, Department of Environmental Microbiology, Osmania
 University, Hyderabad, India
 SO Chemical Biology & Drug Design (2007), 70(6), 511-519
 CODEN: CBDDAL; ISSN: 1747-0277
 PB Blackwell Publishing Ltd.
 DT Journal
 LA English
 RE.CNT 30 THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 4 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2007:1391133 CAPLUS
 DN 148:191869
 TI Microwave-assisted one-pot synthesis of some new furo[2,3-b]quinolines
 using potassium carbonate under solvent-free conditions
 AU Raghavendra, M.; Naik, Halehatty S. Bhojya; Sherigara, Bailure S.
 CS Department of P G Studies and Research in Industrial Chemistry, School of
 Chemical Sciences, Kuvempu University, Karnataka, India
 SO Canadian Journal of Chemistry (2007), 85(12), 1041-1044
 CODEN: CJCHAG; ISSN: 0008-4042
 PB National Research Council of Canada
 DT Journal
 LA English
 RE.CNT 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 5 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2007:1364437 CAPLUS
 DN 148:33637
 TI Substituted quinolones as ATP-utilizing enzyme inhibitors and their
 preparation, compositions, and uses thereof
 IN Dickson, John K.; Chen, Ke; Hodge, Carl Nicholas
 PA Amphora Discovery Corporation, USA
 SO PCT Int. Appl., 143pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2007/136592	A2	2007/1129	WO 2007-US11484	20070510
	WO 2007/136592	A3	20080228		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA

US 20070287706 A1 20071213 US 2007-803140 20070510
 PRAI US 2006-801881P P 20060518
 OS MARPAT 148:33637

=> D L28 6-10

L28 ANSWER 6 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2007:1177863 CAPLUS

DN 147:469247

TI Preparation of quinolones derivatives useful as inducible nitric oxide synthase inhibitors

IN Roppe, Jeffrey R.; Bonnefous, Celine; Smith, Nicholas D.; Lindstrom, Andrew K.; Noble, Stewart A.; Hassig, Christian A.; Payne, Joseph E.; Zhuang, Hui; Chen, Xiaohong; Duron, Sergio G.

PA Kalypsys, Inc., USA

SO PCT Int. Appl., 238pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2007117778	A2	20071018	WO 2007-US62769	20070223
	WO 2007117778	A3	20080207		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
	RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA			

PRAI US 2006-776561P P 20060224

US 2006-848696P P 20061002

OS MARPAT 147:469247

L28 ANSWER 7 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2007:1089909 CAPLUS

DN 147:406842

TI Preparation of 1,2-dihydroquinolin-2-one, 1,2-dihydroquinoxalin-2-one, and 1,2-dihydronaphthyridin-2-one derivatives for treating ocular hypertension

IN Doherty, James B.; Shu, Min; Shen, Dong-Ming; Zhang, Fengqi

PA Merck & Co., Inc., USA

SO PCT Int. Appl., 92pp.

CODEN: PIXXD2

DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2007108968	A2	20070927	WO 2007-US6109	20070309
	WO 2007108968	A3	20071129		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
	RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA				
PRAI	US 2006-781904P	P	20060313		
OS	MARPAT 147:406842				

L28 ANSWER 8 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2007:854383 CAPLUS
DN 147:180202
TI High-conductance calcium-activated potassium channels: validated targets for smooth muscle relaxants?
AU Garcia, Maria L.; Shen, Dong-Ming; Kaczorowski, Gregory J.
CS Department of Ion Channels, Merck Research Laboratories, Rahway, NJ, 07065, USA
SO Expert Opinion on Therapeutic Patents (2007), 17(7), 831-842
CODEN: EOTPEG; ISSN: 1354-3776
PB Informa Healthcare
DT Journal; General Review
LA English
RE.CNT 74 THERE ARE 74 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 9 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2007:840337 CAPLUS
DN 147:406712
TI Synthesis of diastereomeric 2,4-disubstituted pyrano[2,3-b]quinolines from 3-formyl-2-quinolones through O-C bond formation via intramolecular electrophilic cyclization
AU Singh, Mrityunjay K.; Chandra, Atish; Singh, Bhawana; Singh, Radhey M.
CS Department of Chemistry, Banaras Hindu University, Varanasi, 221 005, India
SO Tetrahedron Letters (2007), 48(34), 5987-5990
CODEN: TELEAY; ISSN: 0040-4039
PB Elsevier Ltd.
DT Journal
LA English
OS CASREACT 147:406712
RE.CNT 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 10 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2007:741976 CAPLUS
DN 147:291397
TI Nonnucleoside inhibitor of measles virus RNA-dependent RNA polymerase complex activity
AU White, Laura K.; Yoon, Jeong-Joong; Lee, Jin K.; Sun, Aiming; Du, Yuhong;

Fu, Hai'an; Synder, James P.; Plemper, Richard K.
 CS Department of Pediatrics, Emory University School of Medicine, Atlanta,
 GA, 30322, USA
 SO Antimicrobial Agents and Chemotherapy (2007), 51(7), 2293-2303
 CODEN: AMACQ; ISSN: 0066-4804
 PB American Society for Microbiology
 DT Journal
 LA English
 RE.CNT 54 THERE ARE 54 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> D L28 11-15

L28 ANSWER 11 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2007:702537 CAPLUS
 DN 147:110180
 TI HDP (heme detoxification protein) involved in hemozoin formation in
 Plasmodium and Theileria as an anti-protozoal target, and high-throughput
 screening for antimalarial HDP inhibitors
 IN Rathore, Dharmender; Jani, Dewal; Nagarkatti, Rana
 PA USA
 SO U.S. Pat. Appl. Publ., 123pp., Cont.-in-part of U.S. Ser. No. 249,355.
 CODEN: USXXCO
 DT Patent
 LA English
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 20070148185	A1	20070628	US 2006-549482	20061013
	US 20070087012	A1	20070419	US 2005-249355	20051014
PRAI	US 2005-249355	A2	20051014		

L28 ANSWER 12 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2007:521015 CAPLUS
 DN 147:30962
 TI Preparation of 1,2-dihydroquinoline derivatives as inhibitors of
 epithelial growth factor receptor for treatment of tumor
 IN Luo, Xiaomin; Li, Jian; Jiang, Hualiang; Shen, Xu; Liu, Hong; Shen,
 Jianhua; Zhu, Weiliang; Fu, Lili; Li, Lin; Mei, Changlin
 PA Shanghai Institute of Materia Medica, Chinese Academy of Sciences, Peop.
 Rep. China
 SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 19pp.
 CODEN: CNXXEV
 DT Patent
 LA Chinese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	CN 1958572	A	20070509	CN 2005-10110045	20051104
PRAI	CN 2005-10110045		20051104		
OS	CASREACT 147:30962; MARPAT 147:30962				

L28 ANSWER 13 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2007:427291 CAPLUS
 DN 147:45189
 TI High-throughput screening for small-molecule activators of neutrophils:
 identification of novel N-formyl peptide receptor agonists
 AU Schepetkin, Igor A.; Kirpotina, Liliya N.; Khlebnikov, Andrei I.; Quinn,
 Mark T.
 CS Department of Veterinary Molecular Biology, Montana State University,
 Bozeman, MT, USA

SO Molecular Pharmacology (2007), 71(4), 1061-1074
 CODEN: MOPMA3; ISSN: 0026-895X
 PB American Society for Pharmacology and Experimental Therapeutics
 DT Journal
 LA English
 RE.CNT 39 THERE ARE 39 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 14 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2007:128762 CAPLUS
 DN 146:350581
 TI Structure-Based Pharmacophore Identification of New Chemical Scaffolds as
 Non-Nucleoside Reverse Transcriptase Inhibitors
 AU Barreca, Maria Letizia; De Luca, Laura; Iraci, Nunzio; Rao, Angela; Ferro,
 Stefania; Maga, Giovanni; Chimirri, Alba
 CS Dipartimento Farmaco-Chimico, Universita di Messina, Messina, 98168, Italy
 SO Journal of Chemical Information and Modeling (2007), 47(2), 557-562
 CODEN: JCISD8; ISSN: 1549-9596
 PB American Chemical Society
 DT Journal
 LA English
 RE.CNT 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 15 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2007:126145 CAPLUS
 DN 146:379791
 TI Atropisomeric 3-(β -hydroxyethyl)-4-arylquinolin-2-ones as Maxi-K
 Potassium Channel Openers
 AU Vrudhula, Vivekananda M.; Dasgupta, Bireswar; Qian-Cutrone, Jingfang;
 Kozlowski, Edward S.; Boissard, Christopher G.; Dworetzky, Steven I.; Wu,
 Dedong; Gao, Qi; Kimura, Roy; Gribkoff, Valentin K.; Starrett, John E.,
 Jr.
 CS Bristol-Myers Squibb Pharmaceutical Research Institute, Wallingford, CT,
 06492, USA
 SO Journal of Medicinal Chemistry (2007), 50(5), 1050-1057
 CODEN: JMCMAR; ISSN: 0022-2623
 PB American Chemical Society
 DT Journal
 LA English
 OS CASREACT 146:379791
 RE.CNT 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> D L28 16-20

L28 ANSWER 16 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2007:61837 CAPLUS
 DN 146:156236
 TI Cellular cholesterol absorption modifiers, and their therapeutic use
 IN Gardiner, Elisabeth M.; Duron, Sergio G.; Massari, Mark E.; Severance,
 Daniel L.; Semple, Joseph E.
 PA Kalypsys, Inc., USA
 SO PCT Int. Appl., 300pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2007008541	A2	20070118	WO 2006-US26242	20060705

WO 2007008541 A3 20070726

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA

PRAI US 2005-697659P P 20050708
 US 2005-697686P P 20050708
 US 2005-697814P P 20050708
 US 2005-727646P P 20051017
 US 2006-782303P P 20060313

OS MARPAT 146:156236

L28 ANSWER 17 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2006:1338413 CAPLUS

DN 146:81779

TI Preparation of quinolinones and analogs for the treatment of multi-drug resistant bacterial infections

IN Breault, Gloria; Eyermann, Charles Joseph; Geng, Bolin; Morningstar, Marshall; Reck, Folkert

PA Astrazeneca AB, Swed.; Astrazeneca UK Limited

SO PCT Int. Appl., 209pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2006134378	A1	20061221	WO 2006-GB2207	20060616
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
AU 2006258879	A1	20061221	AU 2006-258879	20060616
CA 2610900	A1	20061221	CA 2006-2610900	20060616
EP 1893599	A1	20080305	EP 2006-744233	20060616
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, YU				
IN 2007DN09254	A	20080118	IN 2007-DN9254	20071130
KR 2008021031	A	20080306	KR 2007-729378	20071214
NO 2008000338	A	20080229	NO 2008-338	20080116
PRAI US 2005-691340P	P	20050616		
WO 2006-GB2207	W	20060616		

OS MARPAT 146:81779

RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 18 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2006:1322867 CAPLUS
 DN 146:229152
 TI Trifluoroacetic acid: a more effective and efficient reagent for the
 synthesis of 3-arylmethylene-3,4-dihydro-1H-quinolin-2-ones and
 3-arylmethyl-2-aminoquinolines from Baylis-Hillman derivatives via Claisen
 rearrangement
 AU Pathak, Richa; Madapa, Sudharshan; Batra, Sanjay
 CS Medicinal and Process Chemistry Division, Central Drug Research Institute,
 Uttar Pradesh, 226001, India
 SO Tetrahedron (2006), Volume Date 2007, 63(2), 451-460
 CODEN: TETRA; ISSN: 0040-4020
 PB Elsevier Ltd.
 DT Journal
 LA English
 OS CASREACT 146:229152
 RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 19 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2006:1119240 CAPLUS
 DN 147:235239
 TI New syntheses of selenolo(2,3-b)quinoline-2-carboxylic ethyl esters
 AU Nithyadevi, V.; Rajendran, S. P.
 CS Department of Chemistry, Bharathiar University, India
 SO Phosphorus, Sulfur and Silicon and the Related Elements (2006), 181(11),
 2623-2634
 CODEN: PSSLEC; ISSN: 1042-6507
 PB Taylor & Francis, Inc.
 DT Journal
 LA English
 RE.CNT 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 20 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2006:1041251 CAPLUS
 DN 145:369901
 TI Protein aggregation inhibitors and protein aggregate depolymerizing
 compounds for the treatment of neurodegenerative conditions
 IN Mandelkow, Eckhard; Mandelkow, Eva-Maria; Biernat, Jacek; Bergen, Martin
 Von; Pickhardt, Marcus
 PA Max-Planck-Gesellschaft Zur Forderungder Wissenschaften, e.v., Germany
 SO U.S. Pat. Appl. Publ., 71pp.
 CODEN: USXXCO
 DT Patent
 LA English
 FAN.CNT 2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20060223812	A1	20061005	US 2006-351884	20060210
WO 2006007864	A1	20060126	WO 2004-EP8031	20040717
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, CA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD,				

RU, TJ, TM
 PRAI WO 2004-EP8031 A2 20040717
 US 2005-652284P P 20050211
 OS MARPAT 145:369901

=> D L28 20 IBIB ABS HITSTR

L28 ANSWER 20 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2006:1041251 CAPLUS
 DOCUMENT NUMBER: 145:369901
 TITLE: Protein aggregation inhibitors and protein aggregate depolymerizing compounds for the treatment of neurodegenerative conditions
 INVENTOR(S): Mandelkow, Eckhard; Mandelkow, Eva-Maria; Biernat, Jacek; Bergen, Martin Von; Pickhardt, Marcus
 PATENT ASSIGNEE(S): Max-Planck-Gesellschaft Zur Forderung der Wissenschaften, e.v., Germany
 SOURCE: U.S. Pat. Appl. Publ., 71pp.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20060223812	A1	20061005	US 2006-351884	20060210
WO 2006007864	A1	20060126	WO 2004-EP8031	20040717
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			

PRIORITY APPLN. INFO.: WO 2004-EP8031 A2 20040717
 US 2005-652284P P 20050211

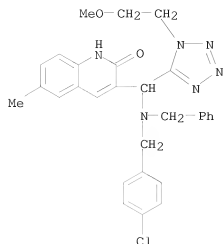
OTHER SOURCE(S): MARPAT 145:369901

AB The invention discloses the use of compds. capable of inhibiting protein aggregate formation and capable of depolymerizing protein aggregates for the preparation of a pharmaceutical composition for treating neurodegenerative conditions, e.g. Alzheimer's disease.

IT 523984-58-9
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (protein aggregation inhibitors and protein aggregate depolymerizing compounds for treatment of neurodegenerative conditions)

RN 523984-58-9 CAPLUS

CN 2(1H)-Quinolinone, 3-[[[(4-chlorophenyl)methyl](phenylmethyl)amino][1-(2-methoxyethyl)-1H-tetrazol-5-yl]methyl]-6-methyl- (CA INDEX NAME)



=> D 24 21-25

L33 ANSWER 24 OF 299 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2006:1041251 CAPLUS
 DN 145:369901
 TI Protein aggregation inhibitors and protein aggregate depolymerizing compounds for the treatment of neurodegenerative conditions
 IN Mandelkow, Eckhard; Mandelkow, Eva-Maria; Biernat, Jacek; Bergen, Martin Von; Pickhardt, Marcus
 PA Max-Planck-Gesellschaft Zur Forderungder Wissenschaften, e.v., Germany
 SO U.S. Pat. Appl. Publ., 71pp.
 CODEN: USXXCO
 DT Patent
 LA English
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 20060223812	A1	20061005	US 2006-351884	20060210
	WO 2006007864	A1	20060126	WO 2004-EP8031	20040717
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
	RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
PRAI	WO 2004-EP8031	A2	20040717		
	US 2005-652284P	P	20050211		
OS	MARPAT 145:369901				

L33 ANSWER 21 OF 299 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2006:1338413 CAPLUS
 DN 146:81779
 TI Preparation of quinolinones and analogs for the treatment of multi-drug resistant bacterial infections
 IN Breault, Gloria; Eyermann, Charles Joseph; Geng, Bolin; Morningstar,

Marshall; Reck, Folkert
 PA Astrazeneca AB, Swed.; Astrazeneca UK Limited
 SO PCT Int. Appl., 209pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2006134378	A1	20061221	WO 2006-GB2207	20060616
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
	RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	AU 2006258879	A1	20061221	AU 2006-258879	20060616
	CA 2610900	A1	20061221	CA 2006-2610900	20060616
	EP 1893599	A1	20080305	EP 2006-744233	20060616
	R:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, YU			
	IN 2007DN09254	A	20080118	IN 2007-DN9254	20071130
	KR 2008021031	A	20080306	KR 2007-729378	20071214
	NO 2008000338	A	20080229	NO 2008-338	20080116
PRAI	US 2005-691340P	P	20050616		
	WO 2006-GB2207	W	20060616		

OS MARPAT 146:81779

RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L33 ANSWER 22 OF 299 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2006:1322867 CAPLUS

DN 146:229152

TI Trifluoroacetic acid: a more effective and efficient reagent for the synthesis of 3-arylmethylene-3,4-dihydro-1H-quinolin-2-ones and 3-arylmethyl-2-aminoquinolines from Baylis-Hillman derivatives via Claisen rearrangement

AU Pathak, Richa; Madapa, Sudharshan; Batra, Sanjay

CS Medicinal and Process Chemistry Division, Central Drug Research Institute, Uttar Pradesh, 226001, India

SO Tetrahedron (2006), Volume Date 2007, 63(2), 451-460

CODEN: TETRAB; ISSN: 0040-4020

PB Elsevier Ltd.

DT Journal

LA English

OS CASREACT 146:229152

RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L33 ANSWER 23 OF 299 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2006:1119240 CAPLUS

DN 147:235239

TI New syntheses of selenolo(2,3-b)quinoline-2-carboxylic ethyl esters

AU Nithyadevi, V.; Rajendran, S. P.

CS Department of Chemistry, Bharathiar University, India

SO Phosphorus, Sulfur and Silicon and the Related Elements (2006), 181(11),
2623-2634
CODEN: PSSLEC; ISSN: 1042-6507
FB Taylor & Francis, Inc.
DT Journal
LA English
RE.CNT 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L33 ANSWER 24 OF 299 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2006:1041251 CAPLUS
DN 145:369901
TI Protein aggregation inhibitors and protein aggregate depolymerizing
compounds for the treatment of neurodegenerative conditions
IN Mandelkow, Eckhard; Mandelkow, Eva-Maria; Biernat, Jacek; Bergen, Martin
Von; Pickhardt, Marcus
PA Max-Planck-Gesellschaft Zur Forderungder Wissenschaften, e.v., Germany
SO U.S. Pat. Appl. Publ., 71pp.
CODEN: USXXCO
DT Patent
LA English
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 20060223812	A1	20061005	US 2006-351884	20060210
	WO 2006007864	A1	20060126	WO 2004-EP8031	20040717
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	RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
PRAI	WO 2004-EP8031	A2	20040717		
	US 2005-652284P	P	20050211		
OS	MARPAT 145:369901				

L33 ANSWER 25 OF 299 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2006:1010580 CAPLUS
DN 145:377217
TI Method for the preparation of phenyl-3-aminomethylquinol-2-one derivatives
of as inhibitors of NO-synthase, their biologically activity and
pharmaceutical composition based thereon
IN Kirpichenok, M. A.; Genis, D. V.; Rodin, O. G.; Solov'ev, A. N.; Kochubei,
V. S.; Fedotov, Y. A.; Afanas'ev, I. I.
PA OOO "Asinehks Medkhim", Russia
SO Russ., 34pp.
CODEN: RUXXE7
DT Patent
LA Russian
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	RU 2284325	C2	20060927	RU 2003-136378	20031217
PRAI	RU 2003-136378		20031217		
OS	CASREACT 145:377217; MARPAT 145:377217				

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SIM ----- Structure Image.
SAT ----- Structure ATtributes and map table if it contains data.
SCT ----- Structure Connection Table and map table if it contains
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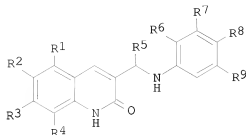
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SIM ----- Structure Image.
SAT ----- Structure ATtributes and map table if it contains data.
SCT ----- Structure Connection Table and map table if it contains
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SDA ----- All Structure Data (image, attributes, connection table and
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L28 ANSWER 21 OF 231 CAPLUS COPYRIGHT 2008 ACS on SIN
ACCESSION NUMBER: 2006:1010580 CAPLUS
DOCUMENT NUMBER: 145:377217
TITLE: Method for the preparation of phenyl-3-
        aminomethylquinol-2-one derivatives of as inhibitors
        of NO-synthase, their biologically activity and
        pharmaceutical composition based thereon
INVENTOR(S): Kirpichenok, M. A.; Genis, D. V.; Rodin, O. G.;
              Solov'ev, A. N.; Kochubei, V. S.; Fedotov, Y. A.;
              Afanas'ev, I. I.
PATENT ASSIGNEE(S): OOO "Asinehks Medkhim", Russia
SOURCE: Russ., 34pp.
        CODEN: RUXXE7
DOCUMENT TYPE: Patent
LANGUAGE: Russian
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:
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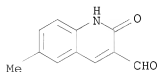
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
RU 2284325	C2	20060927	RU 2003-136378	20031217
PRIORITY APPLN. INFO.:			RU 2003-136378	20031217
OTHER SOURCE(S):			CASREACT 145:377217; MARPAT 145:377217	

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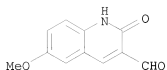


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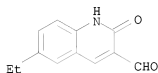
- AB Invention relates to novel amino- and hydroxy-derivs. of phenyl-3-aminomethylquinol-2-ones I [R1 = H, Alkyl, OAlkyl; R2 = H, Alk, Oalk, -OCF3; R3 = H, Alk, Oalk, -SCH3; R4 = H, Alk, Oalk; R2R3 = -(CH2)3, -OCH2O-, -OCH2CH2O-; R5 = H, Alk; R6, R7, R9 = H; R8 = dialkylamino, pyrrolidinyl, piperidinyl (optionally alkyl, hydroxy substituted), azepinyl, morpholinyl, 4-alkylpiperazinyl, 4-acylpiperazinyl, 4-(furancarboxyl)piperazinyl, 4-benzylpiperazinyl, 4-phenylpiperazinyl, RO2C-substituted piperidinyl, 4-(R1R2NCO)-substituted piperidinyl, isoquinolin-2-yl; R = H, alkyl; in case of hydroxy-derivs. at least one among R6, R7, R8, R9 = OH and others = H]. Also, invention relates to methods for synthesis of these compds. and to a pharmaceutical composition based on these compds. inhibiting activity of NO-synthase. Thus, 3-[(4-(dimethylamino)phenylamino)methyl]-5,6,7-trimethoxy-1H-quinolin-2-one [I; R1 = R2 = R3 = OMe, R4 = R5 = R6 = R7 = R9 = H, R8 = NMe2 (II)] was prepared from -5,6,7-trimethoxy-2-oxo-1,2-dihydroquinoline-3-carboxaldehyde via reductive amination with 4-(Me2N)C6H4NH2 in C1CH2CH2C1 containing NaBH(OAc)3. Invention provides preparing novel compds. and pharmaceutical compns. based on thereof in aims for treatment of diseases associated with hyperactivity of phagocytizing cells, for example, rheumatic arthritis, asthma and others. The bioactivity of II was determined [IC50 = 0.031 μ M vs. NO synthase].
- IT 101382-53-0P, 6-Methyl-2-oxo-1,2-dihydroquinoline-3-carboxaldehyde 123990-78-3P 338428-47-0P 433975-12-3P, 6-Ethoxy-2-oxo-1,2-dihydroquinoline-3-carboxaldehyde 873300-64-2P 911105-80-1P 911105-82-3P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and reductive amination of, by aniline derivs.; preparation of 3-[(phenylamino)methyl]quinol-2-one derivs. of as inhibitors of NO-synthase)
- RN 101382-53-0 CAPLUS
- CN 3-Quinolinedicarboxaldehyde, 1,2-dihydro-6-methyl-2-oxo- (CA INDEX NAME)



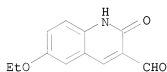
- RN 123990-78-3 CAPLUS
- CN 3-Quinolinedicarboxaldehyde, 1,2-dihydro-6-methoxy-2-oxo- (CA INDEX NAME)



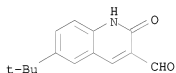
RN 338428-47-0 CAPLUS
 CN 3-Quinolinecarboxaldehyde, 6-ethyl-1,2-dihydro-2-oxo- (CA INDEX NAME)



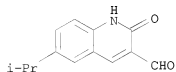
RN 433975-12-3 CAPLUS
 CN 3-Quinolinecarboxaldehyde, 6-ethoxy-1,2-dihydro-2-oxo- (CA INDEX NAME)



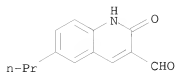
RN 873300-64-2 CAPLUS
 CN 3-Quinolinecarboxaldehyde, 6-(1,1-dimethylethyl)-1,2-dihydro-2-oxo- (CA INDEX NAME)



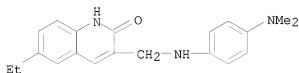
RN 911105-80-1 CAPLUS
 CN 3-Quinolinecarboxaldehyde, 1,2-dihydro-6-(1-methylethyl)-2-oxo- (CA INDEX NAME)



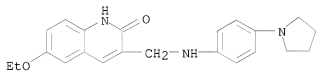
RN 911105-82-3 CAPLUS
 CN 3-Quinolinecarboxaldehyde, 1,2-dihydro-2-oxo-6-propyl- (CA INDEX NAME)



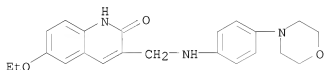
IT 911105-89-0P 911105-90-3P 911105-94-7P
 911105-95-8P 911105-97-0P 911106-00-8P
 911106-02-0P 911106-09-7P 911106-10-0P
 911106-11-1P 911106-12-2P 911106-20-2P
 911106-24-6P 911106-35-9P 911106-36-0P
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of 3-[(phenylamino)methyl]quinol-2-one derivs. of as inhibitors of NO-synthase)
 RN 911105-89-0 CAPLUS
 CN 2(1H)-Quinolinone, 3-[[[4-(dimethylamino)phenyl]amino]methyl]-6-ethyl- (CA INDEX NAME)



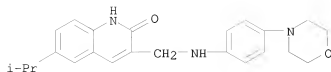
RN 911105-90-3 CAPLUS
 CN 2(1H)-Quinolinone, 6-ethoxy-3-[[[4-(1-pyrrolidinyl)phenyl]amino]methyl]- (CA INDEX NAME)



RN 911105-94-7 CAPLUS
 CN 2(1H)-Quinolinone, 6-ethoxy-3-[[[4-(4-morpholinyl)phenyl]amino]methyl]- (CA INDEX NAME)

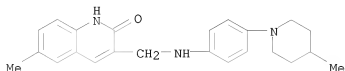


RN 911105-95-8 CAPLUS
 CN 2(1H)-Quinolinone, 6-(1-methylethyl)-3-[[[4-(4-morpholinyl)phenyl]amino]methyl]- (CA INDEX NAME)



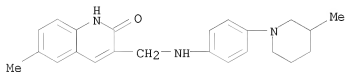
RN 911105-97-0 CAPLUS

CN 2(1H)-Quinolinone, 6-methyl-3-[[[4-(4-methyl-1-piperidinyl)phenyl]amino]methyl]- (CA INDEX NAME)



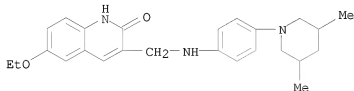
RN 911106-00-8 CAPLUS

CN 2(1H)-Quinolinone, 6-methyl-3-[[[4-(3-methyl-1-piperidinyl)phenyl]amino]methyl]- (CA INDEX NAME)



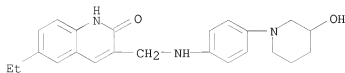
RN 911106-02-0 CAPLUS

CN 2(1H)-Quinolinone, 3-[[[4-(3,5-dimethyl-1-piperidinyl)phenyl]amino]methyl]-6-ethoxy- (CA INDEX NAME)



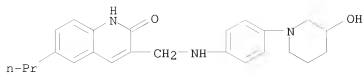
RN 911106-09-7 CAPLUS

CN 2(1H)-Quinolinone, 6-ethyl-3-[[[4-(3-hydroxy-1-piperidinyl)phenyl]amino]methyl]- (CA INDEX NAME)



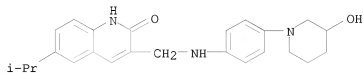
RN 911106-10-0 CAPLUS

CN 2(1H)-Quinolinone, 3-[[[4-(3-hydroxy-1-piperidinyl)phenyl]amino]methyl]-6-propyl- (CA INDEX NAME)



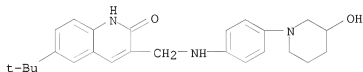
RN 911106-11-1 CAPLUS

CN 2(1H)-Quinolinone, 3-[[[4-(3-hydroxy-1-piperidinyl)phenyl]amino]methyl]-6-(1-methylethyl)- (CA INDEX NAME)



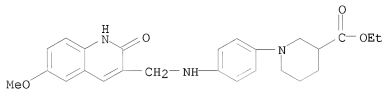
RN 911106-12-2 CAPLUS

CN 2(1H)-Quinolinone, 6-(1,1-dimethylethyl)-3-[[[4-(3-hydroxy-1-piperidinyl)phenyl]amino]methyl]- (CA INDEX NAME)



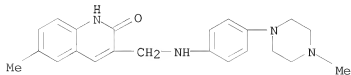
RN 911106-20-2 CAPLUS

CN 3-Piperidinecarboxylic acid, 1-[4-[[[1,2-dihydro-6-methoxy-2-oxo-3-quinolinyl)methyl]amino]phenyl]-, ethyl ester (CA INDEX NAME)



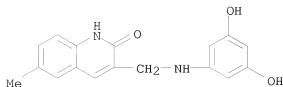
RN 911106-24-6 CAPLUS

CN 2(1H)-Quinolinone, 6-methyl-3-[[[4-(4-methyl-1-piperazinyl)phenyl]amino]methyl]- (CA INDEX NAME)

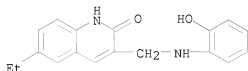


RN 911106-35-9 CAPLUS

CN 2(1H)-Quinolinone, 3-[[[3,5-dihydroxyphenyl]amino]methyl]-6-methyl- (CA INDEX NAME)



RN 911106-36-0 CAPLUS
 CN 2(1H)-Quinolinone, 6-ethyl-3-[(2-hydroxyphenyl)amino]methyl]- (CA INDEX NAME)

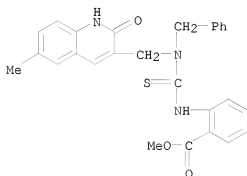


L28 ANSWER 22 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2006:992284 CAPLUS
 DOCUMENT NUMBER: 146:194
 TITLE: Design, synthesis and antitumor evaluation of a new series of N-substituted-thiourea derivatives
 AUTHOR(S): Li, Jian; Tan, Jin-zhi; Chen, Li-li; Zhang, Jian; Shen, Xu; Mei, Chang-lin; Fu, Li-li; Lin, Li-ping; Ding, Jian; Xiong, Bing; Xiong, Xi-shan; Liu, Hong; Luo, Xiao-min; Jiang, Hua-liang
 CORPORATE SOURCE: Drug Discovery and Design Centre, State Key Laboratory of Drug Research, Shanghai Institute of Materia Medica, Shanghai Institutes for Biological Sciences, Chinese Academy of Sciences, Shanghai, 201203, Peop. Rep. China
 SOURCE: Acta Pharmacologica Sinica (2006), 27(9), 1259-1271
 CODEN: APSG5; ISSN: 1671-4083
 PUBLISHER: Blackwell Publishing Asia Pty Ltd.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 146:194
 AB The aim was to design and synthesize a novel class of protein tyrosine kinase inhibitors, featuring the N-(2-oxo-1,2-dihydroquinolin-3-yl-methyl)-thiourea framework. Methods: First, 2 compds. were identified using the virtual screening approach in conjunction with binding assay based on surface plasmon resonance. Subsequently, 3 regions of the 2 compds. were selected for chemical modification. All compds. were characterized with potent inhibitory activities toward the human lung adenocarcinoma cell line SPAC1. Six compds. were found to show promising inhibitory activity against the SPAC1 tumor cell line.
 IT 460339-74-6P 460339-75-7P 483332-87-2P
 483332-88-3P 483332-89-4P 484054-99-1P
 486412-74-2P 486437-38-1P 914774-13-3P
 914774-16-6P 914774-18-8P 914774-19-9P
 914774-21-3P 914774-23-5P 914774-24-6P
 914774-25-7P 914774-27-9P 914774-29-1P
 914774-31-5P 914774-33-7P 914774-34-8P
 914774-35-9P 914774-36-0P 914774-37-1P
 914774-38-2P
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(N-substituted-thiourea derivs. as antitumor protein tyrosine kinase inhibitors)

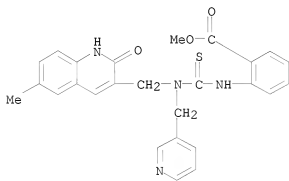
RN 460339-74-6 CAPLUS

CN Benzoic acid, 2-[[[(1,2-dihydro-6-methyl-2-oxo-3-quinolinyl)methyl](phenylmethyl)amino]thioxomethyl]amino]-, methyl ester (CA INDEX NAME)



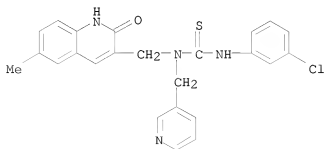
RN 460339-75-7 CAPLUS

CN Benzoic acid, 2-[[[(1,2-dihydro-6-methyl-2-oxo-3-quinolinyl)methyl](3-pyridinylmethyl)amino]thioxomethyl]amino]-, methyl ester (CA INDEX NAME)



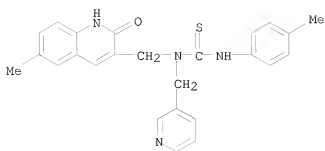
RN 483332-87-2 CAPLUS

CN Thiourea, N'-(3-chlorophenyl)-N-[(1,2-dihydro-6-methyl-2-oxo-3-quinolinyl)methyl]-N-(3-pyridinylmethyl)- (CA INDEX NAME)

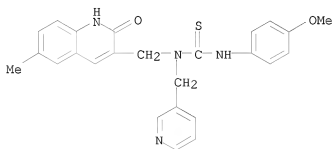


RN 483332-88-3 CAPLUS

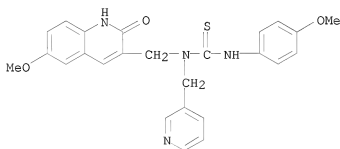
CN Thiourea, N-[(1,2-dihydro-6-methyl-2-oxo-3-quinolinyl)methyl]-N'-(4-methylphenyl)-N-(3-pyridinylmethyl)- (CA INDEX NAME)



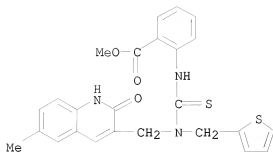
RN 483332-89-4 CAPLUS
 CN Thiourea, N-[(1,2-dihydro-6-methyl-2-oxo-3-quinolinyl)methyl]-N'-(4-methoxyphenyl)-N-(3-pyridinylmethyl)- (CA INDEX NAME)



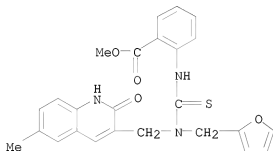
RN 484054-99-1 CAPLUS
 CN Thiourea, N-[(1,2-dihydro-6-methoxy-2-oxo-3-quinolinyl)methyl]-N'-(4-methoxyphenyl)-N-(3-pyridinylmethyl)- (CA INDEX NAME)



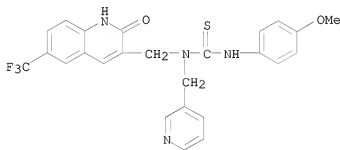
RN 486412-74-2 CAPLUS
 CN Benzoic acid, 2-[[[(1,2-dihydro-6-methyl-2-oxo-3-quinolinyl)methyl](2-thienylmethyl)amino]thioxomethyl]amino]-, methyl ester (CA INDEX NAME)



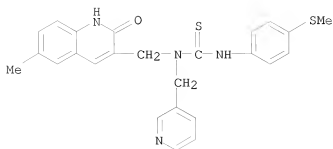
RN 486437-38-1 CAPLUS
 CN Benzoic acid, 2-[[[(1,2-dihydro-6-methyl-2-oxo-3-quinolinyl)methyl](2-furanylmethyl)amino]thioxomethyl]amino]-, methyl ester (CA INDEX NAME)



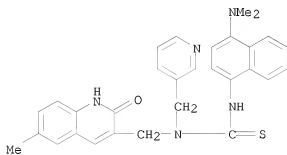
RN 914774-13-3 CAPLUS
 CN Thiourea, N-[[[1,2-dihydro-2-oxo-6-(trifluoromethyl)-3-quinolinyl]methyl]-N'-(4-methoxyphenyl)-N-(3-pyridinylmethyl)- (CA INDEX NAME)



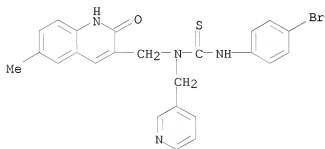
RN 914774-16-6 CAPLUS
 CN Thiourea, N-[[[1,2-dihydro-2-oxo-6-(trifluoromethyl)-3-quinolinyl]methyl]-N'-(4-methylthio)phenyl]-N-(3-pyridinylmethyl)- (CA INDEX NAME)



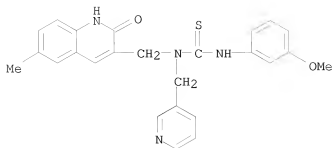
RN 914774-18-8 CAPLUS
 CN Thiourea, N'-[(1,2-dihydro-6-methyl-2-oxo-3-quinolinyl)methyl]-N'-[4-(dimethylamino)-1-naphthalenyl]-N-(3-pyridinylmethyl)- (CA INDEX NAME)



RN 914774-19-9 CAPLUS
 CN Thiourea, N'-[(1,2-dihydro-6-methyl-2-oxo-3-quinolinyl)methyl]-N'-[4-bromophenyl]-N-(3-pyridinylmethyl)- (CA INDEX NAME)

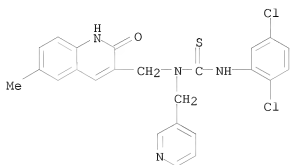


RN 914774-21-3 CAPLUS
 CN Thiourea, N'-[(1,2-dihydro-6-methyl-2-oxo-3-quinolinyl)methyl]-N'-[4-methoxyphenyl]-N-(3-pyridinylmethyl)- (CA INDEX NAME)



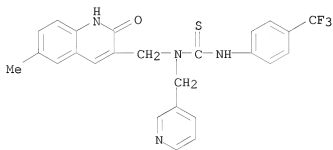
RN 914774-23-5 CAPLUS

CN Thiourea, N'-(2,5-dichlorophenyl)-N-[(1,2-dihydro-6-methyl-2-oxo-3-quinolinyl)methyl]-N-(3-pyridinylmethyl)- (CA INDEX NAME)



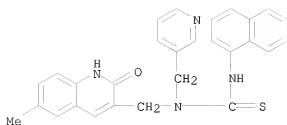
RN 914774-24-6 CAPLUS

CN Thiourea, N-[(1,2-dihydro-6-methyl-2-oxo-3-quinolinyl)methyl]-N-(3-pyridinylmethyl)-N'-[4-(trifluoromethyl)phenyl]- (CA INDEX NAME)



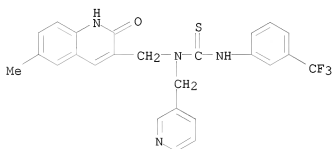
RN 914774-25-7 CAPLUS

CN Thiourea, N-[(1,2-dihydro-6-methyl-2-oxo-3-quinolinyl)methyl]-N'-1-naphthalenyl-N-(3-pyridinylmethyl)- (CA INDEX NAME)



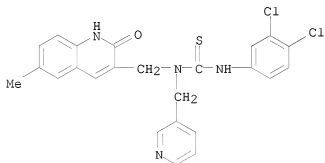
RN 914774-27-9 CAPLUS

CN Thiourea, N-[(1,2-dihydro-6-methyl-2-oxo-3-quinolinyl)methyl]-N-(3-pyridinylmethyl)-N'-(3-(trifluoromethyl)phenyl)- (CA INDEX NAME)



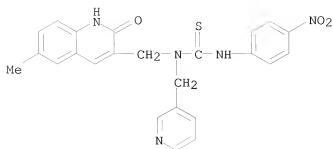
RN 914774-29-1 CAPLUS

CN Thiourea, N'-(3,4-dichlorophenyl)-N-[(1,2-dihydro-6-methyl-2-oxo-3-quinolinyl)methyl]-N-(3-pyridinylmethyl)- (CA INDEX NAME)

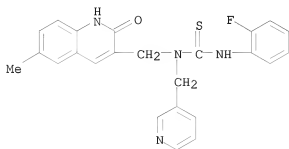


RN 914774-31-5 CAPLUS

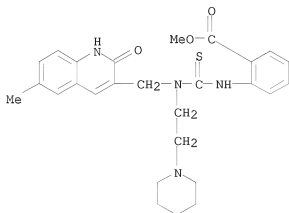
CN Thiourea, N-[(1,2-dihydro-6-methyl-2-oxo-3-quinolinyl)methyl]-N'-(4-nitrophenyl)-N-(3-pyridinylmethyl)- (CA INDEX NAME)



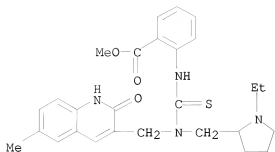
RN 914774-33-7 CAPLUS
 CN Thiourea, N-[(1,2-dihydro-6-methyl-2-oxo-3-quinolinyl)methyl]-N'-(2-fluorophenyl)-N-(3-pyridinylmethyl)- (CA INDEX NAME)



RN 914774-34-8 CAPLUS
 CN Benzoic acid, 2-[[[[(1,2-dihydro-6-methyl-2-oxo-3-quinolinyl)methyl][2-(1-piperidinyl)ethyl]amino]thioxomethyl]amino]-, methyl ester (CA INDEX NAME)

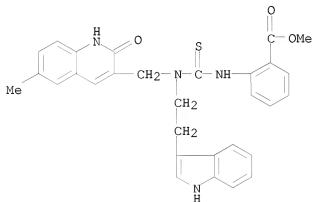


RN 914774-35-9 CAPLUS
 CN Benzoic acid, 2-[[[[(1,2-dihydro-6-methyl-2-oxo-3-quinolinyl)methyl][1-ethyl-2-pyrrolidinyl)methyl]amino]thioxomethyl]amino]-, methyl ester (CA INDEX NAME)



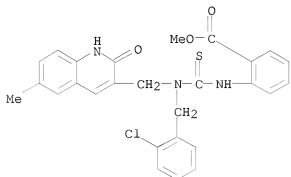
RN 914774-36-0 CAPLUS

CN Benzoic acid, 2-[[[(1,2-dihydro-6-methyl-2-oxo-3-quinolinyl)methyl][2-(1H-indol-3-yl)ethyl]amino]thioxomethyl]amino]-, methyl ester (CA INDEX NAME)



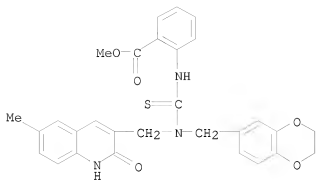
RN 914774-37-1 CAPLUS

CN Benzoic acid, 2-[[[(2-chlorophenyl)methyl][(1,2-dihydro-6-methyl-2-oxo-3-quinolinyl)methyl]amino]thioxomethyl]amino]-, methyl ester (CA INDEX NAME)



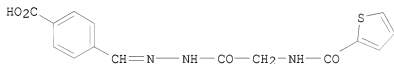
RN 914774-38-2 CAPLUS

CN Benzoic acid, 2-[[[(2,3-dihydro-1,4-benzodioxin-6-yl)methyl][(1,2-dihydro-6-methyl-2-oxo-3-quinolinyl)methyl]amino]thioxomethyl]amino]-, methyl ester (CA INDEX NAME)



REFERENCE COUNT: 45 THERE ARE 45 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

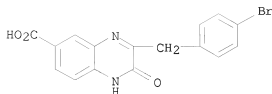
L28 ANSWER 23 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2006:830334 CAPLUS
 DOCUMENT NUMBER: 145:327681
 TITLE: Pharmacophore-based virtual screening: The discovery of novel methionyl-tRNA synthetase inhibitors
 AUTHOR(S): Kim, Su Yeon; Lee, Yeon-Sook; Kang, Taehee; Kim, Sunghoon; Lee, Jeewoo
 CORPORATE SOURCE: Laboratory of Medicinal Chemistry, Research Institute of Pharmaceutical Sciences, College of Pharmacy, Seoul National University, Seoul, 151-742, S. Korea
 SOURCE: Bioorganic & Medicinal Chemistry Letters (2006), 16(18), 4898-4907
 CODEN: BMCLE8; ISSN: 0960-894X
 PUBLISHER: Elsevier B.V.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI



I

AB We have performed virtual screening of a chemical database of 508,143 com. available chems. to search for new methionyl-tRNA synthetase (MetRS) inhibitors. In this study, potent lead compds. with a novel skeleton, including compound 27 (I) with IC50 = 237 nM, were successfully identified as Escherichia coli MetRS inhibitors.
 IT 362493-95-6
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (methionyl-tRNA synthetase inhibitors from pharmacophore-based virtual screening)
 RN 362493-95-6 CAPLUS
 CN 6-Quinoxalinecarboxylic acid, 3-[(4-bromophenyl)methyl]-1,2-dihydro-2-oxo-

(CA INDEX NAME)



REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 24 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2006:800127 CAPLUS

DOCUMENT NUMBER: 145:305641

TITLE: CoMFA study on quinolones as novel inhibitors of HIV-1 reverse transcriptase

AUTHOR(S): Yi, Ping; Qiu, Minghua

CORPORATE SOURCE: Laboratory of Phytochemistry, Kunming Institute of Botany, The Chinese Academy of Science, Kunming, 650204, Peop. Rep. China

SOURCE: Jisuanji Yu Yingyong Huaxue (2006), 23(5), 399-402
CODEN: JYYHE6; ISSN: 1001-4160

PUBLISHER: Jisuanji Yu Yingyong Huaxue Bianjibu

DOCUMENT TYPE: Journal

LANGUAGE: Chinese

AB The aim is to establish the CoMFA models of the quinolones and give the theor. basis to guide the design of the new drug. The advanced 3D-QSAR method CoMFA (comparative mol. field anal.) was used to study the quinolones and leaded to one CoMFA models of these data. The Crossvalidated coefficient q^2 of the model reached 0.556, the non-crossvalidated coefficient r^2 was up to 0.998, standard deviation was 0.044, F

= 401.038. In the series of Quinolones the CoMFA models reveal the relationship between bioactivity and structure, they are helpful to the next design work to find new drugs with high bioactivity.

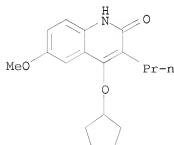
IT 345912-97-2 345912-98-3 345912-99-4

RL: DMA (Drug mechanism of action); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(CoMFA study on quinolones as novel inhibitors of HIV-1 reverse transcriptase)

RN 345912-97-2 CAPLUS

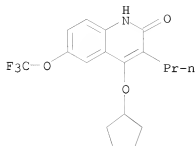
CN 2(1H)-Quinolone, 4-(cyclopentyloxy)-6-methoxy-3-propyl- (CA INDEX NAME)



RN 345912-98-3 CAPLUS

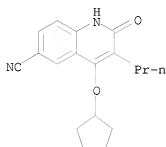
CN 2(1H)-Quinolone, 4-(cyclopentyloxy)-3-propyl-6-(trifluoromethoxy)- (CA

INDEX NAME)



RN 345912-99-4 CAPLUS

CN 6-Quinolines carbonitrile, 4-(cyclopentyloxy)-1,2-dihydro-2-oxo-3-propyl-
(CA INDEX NAME)



L28 ANSWER 25 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2006:791062 CAPLUS

DOCUMENT NUMBER: 145:230880

TITLE: Preparation of novel ligands for the HisB10 Zn²⁺ sites
of the R-state insulin hexamer and their use in
pharmaceutical preparations comprising insulin
INVENTOR(S): Kaarsholm, Niels Christian; Birk Olsen, Helle; Madsen,
Peter; Oestergaard, Soeren; Jakobsen, Palle; Moeller
Tagmose, Tina

PATENT ASSIGNEE(S): Novo Nordisk A/S, Den.

SOURCE: PCT Int. Appl., 424pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006082245	A1	20060810	WO 2006-EP50675	20060206
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ,			

CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
KG, KZ, MD, RU, TJ, TM

PRIORITY APPLN. INFO.:

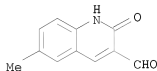
EP 2005-100835

A 20050207

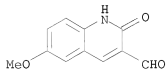
OTHER SOURCE(S):

MARPAT 145:230880

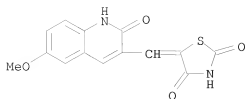
- AB The invention provides novel pharmaceutical prepn. comprising (1) insulin; (2) zinc ions; and (3) zinc-binding, branched ligands of formula CGr-Lnk-Frg1-Frg2-X (I; CGr = a chemical group which binds reversibly to HisB10 Zn²⁺ site of insulin hexamer selected from carboxylates, phenolates, benzotriazoles, tetrazoles, thiazolidinediones, etc.; Lnk = a linker selected from a valence bond, -B1-B2-SO₂-, -B1-B2-NH-, -B1-B2-CO-, -B1-B2-CH₂-, B1 = a valence bond, O, S, NH and derivs.; B2 = a valence bond, (un)substituted alk(en/yn)ylene, hetero/arylene, etc.; Frg1 = fragment containing 0-5 neutral α - or β -amino acids; Frg2 = branched fragment comprising 1 to 20 pos. charged groups independently selected from amino or guanidino groups; X = OH, NH₂, or diamino group; including acid or base addition salts, and any optical isomers or mixture of optical isomers, racemates, and tautomers). About 1000 prepn. for CGr derivs., e.g. CGr-carboxylic acids and derivs., are given. Nineteen peptidic ligands I were prepared by coupling the resin-bound peptides with either 4-[3-(1H-tetrazol-5-yl)carbazol-9-ylmethyl]benzoic acid or 5-[[6-(5-cyano-1H-[1,2,3]triazol-4-yl)naphthalen-2-yl]oxy]pentanoic acid or 4-[4-(2,4-dioxothiazolidin-5-ylidenemethyl)naphthalen-1-yloxy]butyric acid. The binding affinity of representative ligands I to metal site of insulin R6 hexamers was examined (data given). The resulting prepn. are capable of prolonging the action of insulin preparation and are useful for treating Type 1 or Type 2 diabetes.
- IT 101382-53-0 123990-78-3
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of ligands for HisB10 Zn²⁺ sites of R-state insulin hexamer and their use in pharmaceutical prepn. comprising insulin)
- RN 101382-53-0 CAPLUS
- CN 3-Quinolinecarboxaldehyde, 1,2-dihydro-6-methyl-2-oxo- (CA INDEX NAME)



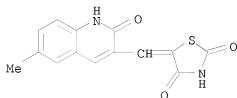
- RN 123990-78-3 CAPLUS
- CN 3-Quinolinecarboxaldehyde, 1,2-dihydro-6-methoxy-2-oxo- (CA INDEX NAME)



- IT 503827-44-9P 503827-49-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of ligands for HisB10 Zn²⁺ sites of R-state insulin hexamer and their use in pharmaceutical prepn. comprising insulin)
- RN 503827-44-9 CAPLUS
- CN 2,4-Thiazolidinedione, 5-[(1,2-dihydro-6-methoxy-2-oxo-3-quinolinyl)methylene]- (CA INDEX NAME)



RN 503827-49-4 CAPLUS
 CN 2,4-Thiazolidinedione, 5-[(1,2-dihydro-6-methyl-2-oxo-3-quinolinyl)methylene]- (CA INDEX NAME)



REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> D L28 26-30

L28 ANSWER 26 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2006:689592 CAPLUS
 DN 145:271677
 TI A convenient synthesis of 2-chlorobenzo[b][1,8]naphthyridines
 AU Vandana, J. Christobel; Ragunath, L.; Rajendran, S. P.
 CS Department of Chemistry, Bharathiar University, Coimbatore, 641 046, India
 SO Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (2006), 45B(6), 1564-1566
 CODEN: IJSBDB; ISSN: 0376-4699
 PB National Institute of Science Communication and Information Resources
 DT Journal
 LA English
 OS CASREACT 145:271677
 RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 27 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2006:672263 CAPLUS
 DN 145:321978
 TI A study of the analytical behaviour of selected synthetic and naturally occurring quinolines using electrospray ionization ion trap mass spectrometry, liquid chromatography and gas chromatography and the construction of an appropriate database for quinoline characterization
 AU O'Donnell, F.; Ramachandran, V. N.; Smyth, W. F.; Hack, C. J.; Patton, E.
 CS School of Biomedical Sciences, University of Ulster Coleraine, Coleraine, Co. Derry, BT52 1SA, UK
 SO Analytica Chimica Acta (2006), 572(1), 63-76
 CODEN: ACACAM; ISSN: 0003-2670
 PB Elsevier B.V.
 DT Journal
 LA English
 RE.CNT 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 28 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2006:583007 CAPLUS
 DN 145:210921
 TI An efficient synthesis of benzo[b][1,8]naphthyridine-3-carboxylic methyl esters
 AU Nithyadevi, V.; Rajendran, S. P.
 CS Department of Chemistry, Bharathiar University, Coimbatore, 641046, India
 SO Journal of Heterocyclic Chemistry (2006), 43(3), 755-758
 CODEN: JHTCAD; ISSN: 0022-152X
 PB HeteroCorporation
 DT Journal
 LA English
 OS CASREACT 145:210921
 RE.CNT 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 29 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2006:207342 CAPLUS
 DN 145:314438
 TI Structural Elucidation Using 1H-NMR, 13C-NMR, and Mass Spectroscopic Study of 3-(Ethoxy-hydroxy-methyl)-quinolin-2(1H)-one and 2-Benzyloxy-3-formylquinoline
 AU Dhanabal, T.; Suresh, T.; Mohan, P.
 CS Department of Chemistry, Bharathiar University, Tamil Nadu, 641 046, India
 SO Spectroscopy Letters (2006), 39(2), 117-126
 CODEN: SPLEBX; ISSN: 0038-7010
 PB Taylor & Francis, Inc.
 DT Journal
 LA English
 OS CASREACT 145:314438
 RE.CNT 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 30 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2006:74852 CAPLUS
 DN 144:164276
 TI Treating neurodegenerative conditions
 IN Mandelkow, Eckard; Mandelkow, Eva-Maria; Biernat, Jacek; Bergen, Martin V.; Pickhardt, Markus
 PA Max Planck Gesellschaft zur Foerderung der Wissenschaft, Germany
 SO PCT Int. Appl., 136 pp.
 CODEN: P1XXD2
 DT Patent
 LA English
 FAN.CNT 2

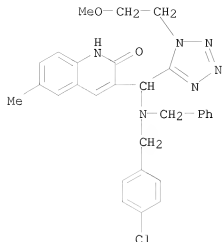
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006007864	A1	20060126	WO 2004-EP8031	20040717
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
US 20060223812	A1	20061005	US 2006-351884	20060210
PRAI WO 2004-EP8031	A2	20040717		

US 2005-652284P P 20050211
 OS MARPAT 144:164276
 RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> D L28 30 IBIB ABS HITSTR

L28 ANSWER 30 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2006:74852 CAPLUS
 DOCUMENT NUMBER: 144:164276
 TITLE: Treating neurodegenerative conditions
 INVENTOR(S): Mandelkow, Eckard; Mandelkow, Eva-Maria; Biernat, Jacek; Bergen, Martin V.; Pickhardt, Markus
 PATENT ASSIGNEE(S): Max Planck Gesellschaft zur Foerderung der Wissenschaft, Germany
 SOURCE: PCT Int. Appl., 136 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006007864	A1	20060126	WO 2004-EP8031	20040717
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
US 20060223812	A1	20061005	US 2006-351884	20060210
PRIORITY APPLN. INFO.:				
			WO 2004-EP8031	A2 20040717
			US 2005-652284P	P 20050211
OTHER SOURCE(S): MARPAT 144:164276				
AB The present invention relates to the use of compds. capable of inhibiting protein aggregate formation and capable of depolyng. protein aggregates for the preparation of a pharmaceutical composition for treating neurodegenerative conditions such as Alzheimer disease.				
IT 523984-58-9 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (compds. to treat neurodegenerative conditions)				
RN 523984-58-9 CAPLUS				
CN 2(1H)-Quinolinone, 3-[[[(4-chlorophenyl)methyl](phenylmethyl)amino][1-(2-methoxyethyl)-1H-tetrazol-5-yl]methyl]-6-methyl- (CA INDEX NAME)				



REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> D L28 31-35

L28 ANSWER 31 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2006:54922 CAPLUS

DN 144:150646

TI Preparation of novel ligands with protamine extensions for the HisB10 Zn²⁺ sites of the R-state insulin hexamer and their use in pharmaceutical preparations comprising insulin

IN Olsen, Helle Birk; Kaarsholm, Niels Christian; Madsen, Peter; Balschmidt, Per

PA Novo Nordisk A/S, Den.

SO PCT Int. Appl., 408 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006005683	A1	20060119	WO 2005-EP53070	20050629
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
EP 1768694	A1	20070404	EP 2005-758689	20050629
R:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR			
JP 2008505866	T	20080228	JP 2007-519777	20050629
PRAI DK 2004-1091	A	20040709		
WO 2005-EP53070	W	20050629		
OS MARPAT 144:150646				

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 32 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2006:26228 CAPLUS

DN 144:128863

TI Derivatives of 3-aminomethylquinolone-2 as inhibitors of NO-synthetase and methods for their preparation and biologically active compounds and pharmaceutical composition based thereon

IN Kirpichenok, M. A.; Genis, D. V.; Rodin, O. G.; Solov'ev, A. N.; Kochubei, V. S.; Saekov, V. N.

PA Obshchestvo s Ogranichennoi Otvetstvennost'yu "Asineks Medkhim", Russia
SO Russ., 23 pp.

CODEN: RUXXE7

DT Patent

LA Russian

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	RU 2267485	C2	20060110	RU 2003-129723	20031007
	WO 2006054912	A1	20060526	WO 2004-RU457	20041118
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
PRAI	RU 2003-129723	A	20031007		

L28 ANSWER 33 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2005:1273698 CAPLUS

DN 144:254021

TI Synthesis, characterization and antimicrobial activities of fused 1,6-naphthyridines

AU Suresh, T.; Dhanabal, T.; Kumar, R. Nandha; Mohan, P. S.

CS Department of Chemistry, Bharathiar University, Coimbatore, 641 046, India

SO Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (2005), 44B(11), 2375-2379

CODEN: IJSBDB; ISSN: 0376-4699

PB National Institute of Science Communication and Information Resources

DT Journal

LA English

OS CASREACT 144:254021

RE.CNT 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 34 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2005:1225850 CAPLUS

DN 144:88253

TI Synthesis of substituted 1,3-dimethyl-1H-quinoxalin-2-ones from aniline derivatives

AU Li, Xun; Wang, Donghua; Wu, Jifeng; Xu, Wenfang

CS College of Pharmacy, Shandong University, Jinan, 250012, Peop. Rep. China

SO Heterocycles (2005), 65(11), 2741-2751

CODEN: HTCYAM; ISSN: 0385-5414

PB Japan Institute of Heterocyclic Chemistry

DT Journal

LA English
OS CASREACT 144:88253
RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 35 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2005:1077191 CAPLUS
DN 143:379513
TI Effect of 4-(5-chloro-2-hydroxyphenyl)-3-(2-hydroxyethyl)-6-(trifluoromethyl)-quinolin-2(1H)-one (BMS-223131), a novel opener of large conductance Ca²⁺-activated K⁺ (maxi-K) channels on normal and stress-aggravated colonic motility and visceral nociception. [Erratum to document cited in CA143:071440]
AU Sivarao, Digavalli V.; Newberry, Kimberly; Langdon, Shaun; Lee, Alicia V.; Hewawasam, Piyasena; Plym, Mary Jane; Signor, Laura; Myers, Robert; Lodge, Nicholas J.
CS Neuroscience Drug Discovery, Pharmaceutical Research Institute, Bristol Myers Squibb Co., Wallingford, CT, USA
SO Journal of Pharmacology and Experimental Therapeutics (2005), 315(1), 476
CODEN: JPETAB; ISSN: 0022-3565
PB American Society for Pharmacology and Experimental Therapeutics
DT Journal
LA English

=> D L28 36-40

L28 ANSWER 36 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2005:1011081 CAPLUS
DN 143:440373
TI Reaction of some furan-2,3-diones with various 1,2-phenylenediamines
AU Saripinar, Emin; Saglam, Ertugrul Gazi; Oncel, Ibrahim; Ilhan, Ilhan Ozer; Goktas, Lale; Kok, Tevfik Riza; Akcamur, Yunus
CS Department of Chemistry, Arts and Sciences Faculty, Erciyes University, Kayseri, 38039, Turk.
SO Heterocycles (2005), 65(9), 2161-2167
CODEN: HETCYM; ISSN: 0385-5414
PB Japan Institute of Heterocyclic Chemistry
DT Journal
LA English
OS CASREACT 143:440373
RE.CNT 42 THERE ARE 42 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 37 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2005:1010091 CAPLUS
DN 144:467988
TI Schiff Bases Derived from 6-Amino-2H-chromen-2-one. Synthesis and 1H NMR Spectra
AU Ganushchak, N. I.; Kobrin, L. O.; Bilaya, E. E.; Mizyuk, V. L.
CS Ivan Franko Lviv National University, Lvov, 79005, Ukraine
SO Russian Journal of Organic Chemistry (2005), 41(7), 1064-1070
CODEN: RJOCEQ; ISSN: 1070-4280
PB Pleiades Publishing, Inc.
DT Journal
LA English
OS CASREACT 144:467988
RE.CNT 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 38 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2005:1007164 CAPLUS

DN 143:440372
TI Novel approach to 3-methyl-1H-quinoxalin-2-ones
AU Li, Xun; Wang, Donghua; Wu, Jifeng; Xu, Wenfang
CS School of Pharmacy, Shandong University, Ji'nan, Peop. Rep. China
SO Synthetic Communications (2005), 35(19), 2553-2560
CODEN: SYNCAV; ISSN: 0039-7911
PB Taylor & Francis, Inc.
DT Journal
LA English
OS CASREACT 143:440372
RE.CNT 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 39 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2005:921427 CAPLUS
DN 143:241376
TI Analogs of a potent maxi-K potassium channel opener with an improved
inhibitory profile toward cytochrome P450 isozymes
AU Vrudhula, Vivekananda M.; Dasgupta, Bireshwar; Boissard, Christopher G.;
Griboff, Valentin K.; Santone, Kenneth S.; Dalterio, Richard A.; Lodge,
Nicholas J.; Starrett, John E.
CS Bristol-Myers Squibb Pharmaceutical Research Institute, Wallingford, CT,
06492, USA
SO Bioorganic & Medicinal Chemistry Letters (2005), 15(19), 4286-4290
CODEN: BMCLE8; ISSN: 0960-894X
PB Elsevier B.V.
DT Journal
LA English
OS CASREACT 143:241376
RE.CNT 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 40 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2005:623965 CAPLUS
DN 144:412337
TI Synthesis of Selenolo(2,3-b)quinoline-2-carboxylic Ethyl Esters:
Cytogenetic Studies on Human Peripheral Blood Leucocyte Cultures, and
Anti-Bacterial Studies, and Anti-Fungal Studies of Their Effects
AU Nithyadevi, V.; Rajendran, S.
CS Department of Chemistry, Bharathiar University, Tamil Nadu, Coimbatore,
India
SO Phosphorus, Sulfur and Silicon and the Related Elements (2005), 180(8),
1849-1862
CODEN: PSSLEC; ISSN: 1042-6507
PB Taylor & Francis, Inc.
DT Journal
LA English
OS CASREACT 144:412337
RE.CNT 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> D L28 41-45

L28 ANSWER 41 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2005:618398 CAPLUS
DN 144:311967
TI Synthesis and reactions of some novel 3-pyrazolyl-2-quinolinones
AU Abass, Mohamed; Othman, Elham S.
CS Department of Chemistry, Faculty of Education, Ain Shams University,
Cairo, 11711, Egypt
SO International Electronic Conferences on Synthetic Organic Chemistry, 5th,

6th, Sept. 1-30, 2001 and 2002 [and] 7th, 8th, Nov. 1-30, 2003 and 2004 (2004), 1369-1373. Editor(s): Seijas, Julio A. Publisher: Molecular Diversity Preservation International, Basel, Switz.
CODEN: 69GTCT

DT Conference; (computer optical disk)

LA English

OS CASREACT 144:311967

RE.CNT 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 42 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2005:567163 CAPLUS

DN 143:78213

TI Preparation of cyclohexylalkyl quinolinone and quinoxalinone derivatives as poly(ADP-ribose) polymerase (PARP) inhibitors

IN Mabire, Dominique Jean-Pierre; Van Dun, Jacobus Alphonsus Josephus; Somers, Maria Victorina Francisca; Wouters, Walter Boudewijn Leopold Janssen Pharmaceutica N. V., Belg.

SO PCT Int. Appl., 59 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2005058843	A1	20050630	WO 2004-EP13165	20041118
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2004299183	A1	20050630	AU 2004-299183	20041118
CA 2548273	A1	20050630	CA 2004-2548273	20041118
EP 1694653	A1	20060830	EP 2004-803192	20041118
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR, IS, YU				
CN 1890225	A	20070103	CN 2004-80036656	20041118
BR 2004017571	A	20070320	BR 2004-17571	20041118
JP 2007513898	T	20070531	JP 2006-543409	20041118
MX 2006PA06573	A	20060731	MX 2006-PA06573	20060609
IN 2006DN03331	A	20070824	IN 2006-DN3331	20060609
NO 2006003129	A	20060705	NO 2006-3129	20060705
FRAI EP 2003-78918	A	20031210		
WO 2004-EP13165	W	20041118		

OS CASREACT 143:78213; MARPAT 143:78213

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 43 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2005:523430 CAPLUS

DN 143:60003

TI Preparation of 6-substituted 2-quinolinones and 2-quinoxalinones as poly(ADP-ribose) polymerase inhibitors

IN Mabire, Dominique Jean-Pierre; Guillemont, Jerome Emile Georges; Van Dun, Jacobus Alphonsus Josephus; Somers, Maria Victorina Francisca; Wouters,

Walter Boudewijn Leopold
 PA Janssen Pharmaceutica N. V., Belg.
 SO PCT Int. Appl., 48 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005054210	A1	20050616	WO 2004-EP13164	20041118
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
	RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
	AU 2004295059	A1	20050616	AU 2004-295059	20041118
	CA 2546657	A1	20050616	CA 2004-2546657	20041118
	EP 1709012	A1	20061011	EP 2004-819602	20041118
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR, IS, YU			
	CN 1890224	A	20070103	CN 2004-80035857	20041118
	BR 2004016532	A	20070109	BR 2004-16532	20041118
	JP 2007513101	T	20070524	JP 2006-541830	20041118
	IN 2006DN03071	A	20070810	IN 2006-DN3071	20060529
	US 20070129375	A1	20070607	US 2006-596086	20060530
	MX 2006PA06255	A	20060809	MX 2006-PA6255	20060602
	NO 2006003028	A	20060628	NO 2006-3028	20060628
PRAI	EP 2003-78859	A	20031205		
	WO 2004-EP13164	W	20041118		
OS	CASREACT 143:60003; MARPAT 143:60003				
RE.CNT 2	THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD				
	ALL CITATIONS AVAILABLE IN THE RE FORMAT				

L28 ANSWER 44 OF 231 CAPLUS COPYRIGHT 2008 ACS on SIN
 AN 2005:523424 CAPLUS
 DN 143:60001
 TI Preparation of 6-alkenyl and 6-phenylalkyl substituted 2-quinolinones and 2-quinoxalinones as poly(ADP-ribose) polymerase inhibitors
 IN Mabire, Dominique Jean-pierre; Guillemont, Jerome Emile Georges; Van Dun, Jacobus Alphonsus Josephus; Somers, Maria Victorina Francisca; Wouters, Walter Boudewijn Leopold
 PA Janssen Pharmaceutica N. V., Belg.
 SO PCT Int. Appl., 102 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005054201	A1	20050616	WO 2004-EP13163	20041118
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,			

TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO,
SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR,
NE, SN, TD, TG

AU	2004295058	A1	20050616	AU	2004-295058	20041118
CA	2546300	A1	20050616	CA	2004-2546300	20041118
EP	1687277	A1	20060809	EP	2004-819601	20041118

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, IS

CN	1882547	A	20061220	CN	2004-80034176	20041118
BR	2004016206	A	20061226	BR	2004-16206	20041118
JP	2007511574	T	20070510	JP	2006-540338	20041118
US	20070072842	A1	20070329	US	2006-595891	20060518
IN	2006DN02813	A	20070803	IN	2006-DN2813	20060518
MX	2006PA05687	A	20060817	MX	2006-PA5687	20060519
NO	2006002894	A	20060809	NO	2006-2894	20060620

PRAI WO 2003-EP13028 A 20031120
EP 2003-78860 A 20031205
WO 2003-EP300130 A 20031120
WO 2003-EP313028 A 20031120
WO 2004-EP13163 W 20041118

OS CASREACT 143:60001; MARPAT 143:60001
RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 45 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2005:413542 CAPLUS
DN 143:71440
TI Effect of 4-(5-chloro-2-hydroxyphenyl)-3-(2-hydroxyethyl)-6-(
(trifluoromethyl)-quinolin-2(1H)-one (BMS-223131), a novel opener of large
conductance Ca²⁺-activated K⁺ (maxi-K) channels on normal and
stress-aggravated colonic motility and visceral nociception
AU Sivarao, Digavalli V.; Newberry, Kimberly; Langdon, Shaun; Lee, Alicia V.;
Hewawasam, Piyasena; Plym, Mary Jane; Signor, Laura; Myers, Robert; Lodge,
Nicholas J.
CS Neuroscience Drug Discovery, Pharmaceutical Research Institute, Bristol
Myers Squibb Co., Wallingford, CT, USA
SO Journal of Pharmacology and Experimental Therapeutics (2005), 313(2),
840-847
CODEN: JPETAB; ISSN: 0022-3565
PB American Society for Pharmacology and Experimental Therapeutics
DT Journal
LA English
RE.CNT 44 THERE ARE 44 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> D L28 46-50

L28 ANSWER 46 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2005:298745 CAPLUS
DN 143:59923
TI A convenient one-pot synthesis of benzopyrimido[1,8]naphthyridines by
Knoevenagel condensation
AU Kumar, R. Nandha; Suresh, T.; Mohan, P. S.
CS Department of Chemistry, Bharathiar University, Coimbatore, 641046, India
SO Chemistry of Heterocyclic Compounds (New York, NY, United States) (2004),
40(11), 1490-1492
CODEN: CHCCAL; ISSN: 0009-3122
PB Springer Science+Business Media, Inc.

DT Journal
LA English
OS CASREACT 143:59923
RE.CNT 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 47 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2005:283877 CAPLUS
DN 142:481926
TI Microwave-assisted multistep synthesis of functionalized
4-aryquinolin-2(1H)-ones using palladium-catalyzed cross-coupling
chemistry
AU Glasnov, Toma N.; Stadlbauer, Wolfgang; Kappe, C. Oliver
CS Institute of Chemistry Organic and Bioorganic Chemistry,
Karl-Franzens-University Graz, Graz, A-8010, Austria
SO Journal of Organic Chemistry (2005), 70(10), 3864-3870
CODEN: JOCEAH; ISSN: 0022-3263
PB American Chemical Society
DT Journal
LA English
OS CASREACT 142:481926
RE.CNT 48 THERE ARE 48 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 48 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2005:80538 CAPLUS
DN 142:316680
TI Synthesis, Structure-Activity Relationship, and Receptor Pharmacology of a
New Series of Quinoline Derivatives Acting as Selective, Noncompetitive
mGluR Antagonists
AU Mabire, Dominique; Coupa, Sophie; Adelinet, Christophe; Poncelet, Alain;
Simonnet, Yvan; Venet, Marc; Wouters, Ria; Lesage, Anne S. J.; Van
Beijsterveldt, Ludy; Bischoff, Francois
CS Department of Medicinal Chemistry, Johnson & Johnson Pharmaceutical
Research Development, Val de Reuil, F-27106, Fr.
SO Journal of Medicinal Chemistry (2005), 48(6), 2134-2153
CODEN: JMCMAR; ISSN: 0022-2623
PB American Chemical Society
DT Journal
LA English
OS CASREACT 142:316680
RE.CNT 49 THERE ARE 49 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 49 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2004:909249 CAPLUS
DN 142:410804
TI Structural Elucidation: IR, 1H-NMR and Mass Spectroscopic Study of Novel
4-Amino-6-oxo,4a,5,12,12a-tetrahydro(7H), benzopyrano[3,2-c]quinoline
AU Nandha Kumar, R.; Suresh, T.; Mohan, P. S.
CS Department of Chemistry, Bharathiar University, Tamil Nadu, India
SO Spectroscopy Letters (2004), 37(6), 581-585
CODEN: SPLEBX; ISSN: 0038-7010
PB Marcel Dekker, Inc.
DT Journal
LA English
RE.CNT 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 50 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2004:887786 CAPLUS
DN 142:261432

TI Synthesis and spectral studies of thieno(2,3-b)quinoline derivatives
 AU Nithyadevi, V.; Sampathkumar, N.; Rajendran, S. P.
 CS Department of Chemistry, Bharathiar University, Coimbatore, 641 046, India
 SO Asian Journal of Chemistry (2004), 16(3-4), 1594-1598
 CODEN: AJCHEW; ISSN: 0970-7077
 PB Asian Journal of Chemistry
 DT Journal
 LA English
 OS CASREACT 142:261432
 RE.CNT 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> D L28 51-55

L28 ANSWER 51 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2004:886367 CAPLUS
 DN 142:241
 TI Design of Non-nucleoside Inhibitors of HIV-1 Reverse Transcriptase with
 Improved Drug Resistance Properties. 2.
 AU Freeman, George A.; Andrews, C. Webster, III; Hopkins, Andrew L.; Lowell,
 Gina S.; Schaller, Lee T.; Cowan, Jill R.; Gonzales, Stephen S.; Koszalka,
 George W.; Hazen, Richard J.; Boone, Lawrence R.; Ferris, Rob G.; Creech,
 Katrina L.; Roberts, Grace B.; Short, Steven A.; Weaver, Kurt; Reynolds,
 David J.; Milton, John; Ren, Jingshan; Stuart, David I.; Stammers, David
 K.; Chan, Joseph H.
 CS GlaxoSmithKline Research and Development, Research Triangle Park, NC,
 27709, USA
 SO Journal of Medicinal Chemistry (2004), 47(24), 5923-5936
 CODEN: JMCMAR; ISSN: 0022-2623
 PB American Chemical Society
 DT Journal
 LA English
 OS CASREACT 142:241
 RE.CNT 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 52 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2004:780555 CAPLUS
 DN 141:301423
 TI Preparation of high-affinity ligands for crystalline formulations of
 NPH-insulin
 IN Balschmidt, Per; Olsen, Helle Birk; Kaarsholm, Niels C.; Madsen, Peter;
 Jakobsen, Palle; Ludvigsen, Svend; Schluckebier, Gerd; Steensgaard, Dorte
 Bjerre; Petersen, Anders Klarskov
 PA Novo Nordisk A/S, Den.
 SO PCT Int. Appl., 394 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2004080481	A1	20040923	WO 2004-DK160	20040312
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE,			

ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,
SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN,
TD, TG

EP 1605967 A1 20051221 EP 2004-719932 20040312
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK

JP 2006519791 T 20060831 JP 2006-504321 20040312
US 20060258561 A1 20061116 US 2005-226870 20050909

PRAI DK 2003-383 A 20030313
US 2003-455341P P 20030317
WO 2004-DK160 W 20040312

OS MARPAT 141:301423

RE.CNT 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 53 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2004:780554 CAPLUS
DN 141:301422

TI Preparation of heterocyclic ligands for acid-stabilized insulin analogs
IN Ostergaard, Soren; Olsen, Helle Birk; Kaarsholm, Niels C.; Madsen, Peter;
Jakobsen, Palle; Ludvigsen, Svend; Schluckebier, Gerd; Steensgaard, Dorte
Bjerre; Petersen, Anders Klarskov

PA Novo Nordisk A/S, Den.
SO PCT Int. Appl., 473 pp.
CODEN: PIXXD2

DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2004080480	A1	20040923	WO 2004-DK158	20040311
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2004218808	A1	20040923	AU 2004-218808	20040311
CA 2522818	A1	20040923	CA 2004-2522818	20040311
EP 1610812	A1	20060104	EP 2004-719368	20040311
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK				
BR 2004008229	A	20060221	BR 2004-8229	20040311
CN 1787833	A	20060614	CN 2004-80012690	20040311
JP 2007523842	T	20070823	JP 2006-504320	20040311
US 20060069013	A1	20060330	US 2005-227760	20050912
NO 2005004555	A	20051117	NO 2005-4555	20051004
PRAI DK 2003-365	A	20030311		
US 2003-455400P	P	20030317		
WO 2004-DK158	A	20040311		

TI 4-(4-Methylbenzoyl)-5-(4-methylphenyl)furan-2,3-dione: Synthesis,
 thermolysis and reactions with aromatic amines and diamines
 AU Yildirim, Ismail; Koca, Irfan
 CS Arts and Sciences Faculty, Chemistry Department, Erciyes University,
 Kayseri, 38039, Turk.
 SO Asian Journal of Chemistry (2004), 16(2), 899-909
 CODEN: AJCHEW; ISSN: 0970-7077
 PB Asian Journal of Chemistry
 DT Journal
 LA English
 OS CASREACT 142:219090
 RE.CNT 51 THERE ARE 51 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 55 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2004:734398 CAPLUS
 DN 142:240344
 TI Synthesis and comparison of the biological activities of derivatives of
 3,5-diphenyl-2H-pyrano[2,3-b]quinolin-2-one
 AU Kumar, N. Venkatesh; Kumar, N. Sampath; Rajendran, S. P.
 CS Department of Chemistry, Bharathiar University, Coimbatore, 641 046, India
 SO Asian Journal of Chemistry (2004), 16(2), 848-852
 CODEN: AJCHEW; ISSN: 0970-7077
 PB Asian Journal of Chemistry
 DT Journal
 LA English
 OS CASREACT 142:240344
 RE.CNT 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> D L28 52-53 IBIB ABS HITSTR

L28 ANSWER 52 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2004:780555 CAPLUS
 DOCUMENT NUMBER: 141:301423
 TITLE: Preparation of high-affinity ligands for crystalline
 formulations of NPH-insulin
 INVENTOR(S): Balschmidt, Per; Olsen, Helle Birk; Kaarsholm, Niels
 C.; Madsen, Peter; Jakobsen, Palle; Ludvigsen, Svend;
 Schluckebier, Gerd; Steensgaard, Dorte Bjerre;
 Petersen, Anders Klarskov
 PATENT ASSIGNEE(S): Novo Nordisk A/S, Den.
 SOURCE: PCT Int. Appl., 394 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004080481	A1	20040923	WO 2004-DK160	20040312
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, BG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,			

SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN,
 TD, TG
 EP 1605967 A1 20051221 EP 2004-719932 20040312
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK
 JP 2006519791 T 20060831 JP 2006-504321 20040312
 US 20060258561 A1 20061116 US 2005-226870 20050909
 PRIORITY APPLN. INFO.: DK 2003-383 A 20030313
 US 2003-455341P P 20030317
 WO 2004-DK160 W 20040312

OTHER SOURCE(S): MARPAT 141:301423

AB This invention relates to NPH-insulin (crystalline prepsns.) that are prepared in

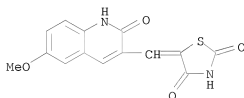
the presence of certain high-affinity ligands for the HisB10-Zn2+, sites of the R-state insulin hexamer. Preparation of NPH-insulin in the presence of high-affinity ligand results in crystalline NPH-insulin suspensions that are absorbed more slowly from subcutis than regular NPH-insulin. Hence the resulting action profile is longer and the spike is less pronounced than observed with regular NPH-insulin. Thus, 1H-benzotriazole-5-carboxylic acid phenylamide was prepared by the reaction of benzotriazole-5-carboxylic acid with aniline in the presence of EDAC in DMF. A formulation contained a ligand-incorporated NPH insulin and.

IT 503827-44-9P 503827-49-4P

RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of high-affinity ligands for crystalline formulations of NPH-insulin)

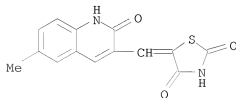
RN 503827-44-9 CAPLUS

CN 2,4-Thiazolidinedione, 5-[(1,2-dihydro-6-methoxy-2-oxo-3-quinolinyl)methylene]- (CA INDEX NAME)



RN 503827-49-4 CAPLUS

CN 2,4-Thiazolidinedione, 5-[(1,2-dihydro-6-methyl-2-oxo-3-quinolinyl)methylene]- (CA INDEX NAME)



REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 53 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2004:780554 CAPLUS

DOCUMENT NUMBER: 141:301422

TITLE: Preparation of heterocyclic ligands for

INVENTOR(S): acid-stabilized insulin analogs
 Ostergaard, Soren; Olsen, Helle Birk; Kaarsholm, Niels
 C.; Madsen, Peter; Jakobsen, Palle; Ludvigsen, Svend;
 Schluckebier, Gerd; Steensgaard, Dorte Bjerre;
 Petersen, Anders Klarskov

PATENT ASSIGNEE(S): Novo Nordisk A/S, Den.

SOURCE: PCT Int. Appl., 473 pp.
 CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004080480	A1	20040923	WO 2004-DK158	20040311
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RM: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2004218808	A1	20040923	AU 2004-218808	20040311
CA 2522818	A1	20040923	CA 2004-2522818	20040311
EP 1610812	A1	20060104	EP 2004-719368	20040311
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK				
BR 2004008229	A	20060221	BR 2004-8229	20040311
CN 1787833	A	20060614	CN 2004-80012690	20040311
JP 2007523842	T	20070823	JP 2006-504320	20040311
US 20060069013	A1	20060330	US 2005-227760	20050912
NO 2005004555	A	20051117	NO 2005-4555	20051004
PRIORITY APPLN. INFO.:			DK 2003-365	A 20030311
			US 2003-455400P	P 20030317
			WO 2004-DK158	A 20040311

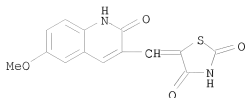
OTHER SOURCE(S): MARPAT 141:301422

AB Novel ligands for the His-B10 Zn²⁺ sites of the R-state insulin hexamer that are capable of prolonging the action of insulin preps. are disclosed. A mixture of 4-aminobenzonitrile, sodium azide and ammonium chloride in DMF was heated at 125° for 16 h. The cooled mixture was filtered and the filtrate was concentrated to give 5-(4-aminophenyl)-2H-tetrazole. This was used as the ligand for His-B10 Zn²⁺ sites of the R-state insulin hexamer.

IT 503827-44-9P 503827-49-4P
 RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of heterocyclic ligands for acid-stabilized insulin analogs)

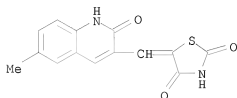
RN 503827-44-9 CAPLUS

CN 2,4-Thiazolidinedione, 5-[(1,2-dihydro-6-methoxy-2-oxo-3-quinolinyl)methylene]- (CA INDEX NAME)



RN 503827-49-4 CAPLUS

CN 2,4-Thiazolidinedione, 5-[(1,2-dihydro-6-methyl-2-oxo-3-quinolinyl)methylene]- (CA INDEX NAME)



REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> D L28 56-60

L28 ANSWER 56 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2004:713030 CAPLUS

DN 142:219172

TI Synthesis of thieno(2,3-b)quinoline-2-carboxylic esters from 3-(2-oxo-1,2-dihydro-3-quinolyl)acrylic esters

AU Nithyadevi, V.; Mohanapriya, S.; Rajendran, S. P.

CS Department of Chemistry, Bharathiar University, Coimbatore, 641046, India

SO Heterocyclic Communications (2004), 10(4-5), 339-342

CODEN: HCOMEX; ISSN: 0793-0283

PB Freund Publishing House Ltd.

DT Journal

LA English

OS CASREACT 142:219172

RE.CNT 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 57 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2004:707863 CAPLUS

DN 141:379764

TI Synthesis of 2-Quinolones via Palladium-Catalyzed Carbonylative Annulation of Internal Alkynes by N-Substituted o-Iodoanilines

AU Kadnikov, Dmitry V.; Larock, Richard C.

CS Department of Chemistry, Iowa State University, Ames, IA, 50011, USA

SO Journal of Organic Chemistry (2004), 69(20), 6772-6780

CODEN: JOCEAH; ISSN: 0022-3263

PB American Chemical Society

DT Journal

LA English

OS CASREACT 141:379764

RE.CNT 55 THERE ARE 55 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 58 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2004:565093 CAPLUS
 DN 141:117166
 TI Atropisomers of 3-substituted-4-arylquinolin-2-one derivatives for
 modulation of calcium-activated potassium channels
 IN Vrudhula, Vivekananda M.; Gribkoff, Valentin Kala; Dasgupta, Bireshwar;
 Boissard, Christopher G.
 PA Bristol-Myers Squibb Company, USA
 SO PCT Int. Appl., 44 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004058260	A1	20040715	WO 2003-US41548	20031218
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TG, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	US 20040147749	A1	20040729	US 2003-739449	20031217
	US 6939968	B2	20050906		
	AU 2003300425	A1	20040722	AU 2003-300425	20031218
	EP 1575589	A1	20050921	EP 2003-814399	20031218
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
	TR 200502440	T2	20051021	TR 2005-2440	20031218
	BR 2003017679	A	20051129	BR 2003-17679	20031218
	CN 1750821	A	20060322	CN 2003-80109833	20031218
	JP 2006512378	T	20060413	JP 2004-562595	20031218
	MX 2005PA06814	A	20050908	MX 2005-PA6814	20050621
	ZA 2005005077	A	20060927	ZA 2005-5077	20050622
	NO 2005003078	A	20050829	NO 2005-3078	20050623
	IN 2005DN02882	A	20070112	IN 2005-DN2882	20050628
PRAI	US 2002-436160P	P	20021223		
	WO 2003-US41548	W	20031218		
OS	MARPAT 141:117166				

L28 ANSWER 59 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2004:550870 CAPLUS
 DN 141:106476
 TI Preparation of heterocyclic compounds as ligands for stabilizing insulin compositions
 IN Kaarsholm, Niels Christian; Madsen, Peter; Schlein, Morten; Olsen, Helle Birk; Havelund, Svend; Steensgaard, Dorte Bjerre; Ludvigsen, Svend; Jakobsen, Palle; Petersen, Anders Klarskov; Schluckebier, Gerd
 PA Novo Nordisk A/S, Den.
 SO PCT Int. Appl., 432 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004056347	A2	20040708	WO 2003-DK931	20031222
	WO 2004056347	A3	20040812		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

AU 2003291972 A1 20040714 AU 2003-291972 20031222
 EP 1585541 A2 20051019 EP 2003-767488 20031222
 EP 1585541 B1 20071114

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK

JP 2006516966 T 20060713 JP 2005-502527 20031222
 AT 378063 T 20071115 AT 2003-767488 20031222
 US 20050065066 A1 20050324 US 2004-825995 20040416

FRAI DK 2002-1991 A 20021220
 US 2003-439382P P 20030110
 WO 2003-DK931 W 20031222

OS MARPAT 141:106476

L28 ANSWER 60 OF 231 CAPLUS COPYRIGHT 2008 ACS on SIN
 AN 2004:337507 CAPLUS
 DN 141:54222
 TI A new synthesis of 5-substituted-3-phenyl-2H-pyrano[2,3-b]quinolin-2-ones
 AU Kumar, N. Venkatesh; Subramani, B.; Rajendran, S. P.
 CS Department of Chemistry, Bharathiar University, Coimbatore, 641 046, India
 SO Journal of the Indian Chemical Society (2003), 80(10), 918-920
 CODEN: JICSAH; ISSN: 0019-4522
 PB Indian Chemical Society
 DT Journal
 LA English
 OS CASREACT 141:54222
 RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> D L28 58-60

L28 ANSWER 58 OF 231 CAPLUS COPYRIGHT 2008 ACS on SIN
 AN 2004:565093 CAPLUS
 DN 141:117166
 TI Atropisomers of 3-substituted-4-arylquinolin-2-one derivatives for modulation of calcium-activated potassium channels
 IN Vrudhula, Vivekananda M.; Gribkoff, Valentin Kala; Dasgupta, Bireswar; Boissard, Christopher G.
 PA Bristol-Myers Squibb Company, USA
 SO PCT Int. Appl., 44 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004058260	A1	20040715	WO 2003-US41548	20031218
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	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ,				

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 BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE,
 ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK,
 TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

US 20040147749 A1 20040729 US 2003-739449 20031217
 US 6939968 B2 20050906
 AU 2003300425 A1 20040722 AU 2003-300425 20031218
 EP 1575589 A1 20050921 EP 2003-814399 20031218

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
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TR 200502440 T2 20051021 TR 2005-2440 20031218
 BR 2003017679 A 20051129 BR 2003-17679 20031218
 CN 1750821 A 20060322 CN 2003-80109833 20031218
 JP 2006512378 T 20060413 JP 2004-562595 20031218
 MX 2005PA06814 A 20050908 MX 2005-PA6814 20050621
 ZA 2005005077 A 20060927 ZA 2005-5077 20050622
 NO 2005003078 A 20050829 NO 2005-3078 20050623
 IN 2005DN02882 A 20070112 IN 2005-DN2882 20050628

PRAI US 2002-436160P P 20021223
 WO 2003-US41548 W 20031218

OS MARPAT 141:117166

L28 ANSWER 59 OF 231 CAPLUS COPYRIGHT 2008 ACS on SIN

AN 2004:550870 CAPLUS

DN 141:106476

TI Preparation of heterocyclic compounds as ligands for stabilizing insulin compositions

IN Kaarsholm, Niels Christian; Madsen, Peter; Schleien, Morten; Olsen, Helle Birk; Havelund, Svend; Steensgaard, Dorte Bjerre; Ludvigsen, Svend; Jakobsen, Palle; Petersen, Anders Klarskov; Schluckebier, Gerd

PA Novo Nordisk A/S, Den.

SO PCT Int. Appl., 432 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004056347	A2	20040708	WO 2003-DK931	20031222
WO 2004056347	A3	20040812		
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RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2003291972	A1	20040714	AU 2003-291972	20031222
EP 1585541	A2	20051019	EP 2003-767488	20031222
EP 1585541	B1	20071114		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
JP 2006516966	T	20060713	JP 2005-502527	20031222
AT 378063	T	20071115	AT 2003-767488	20031222
US 20050065066	A1	20050324	US 2004-825995	20040416
PRAI DK 2002-1991	A	20021220		
US 2003-439382P	P	20030110		
WO 2003-DK931	W	20031222		

OS MARPAT 141:106476

L28 ANSWER 60 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2004:337507 CAPLUS
DN 141:54222
TI A new synthesis of 5-substituted-3-phenyl-2H-pyrano[2,3-b]quinolin-2-ones
AU Kumar, N. Venkatesh; Subramani, B.; Rajendran, S. P.
CS Department of Chemistry, Bharathiar University, Coimbatore, 641 046, India
SO Journal of the Indian Chemical Society (2003), 80(10), 918-920
CODEN: JICSAH; ISSN: 0019-4522
PB Indian Chemical Society
DT Journal
LA English
OS CASREACT 141:54222
RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> D L28 58-60 IBIB ABS HITSTR

L28 ANSWER 58 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2004:565093 CAPLUS
DOCUMENT NUMBER: 141:117166
TITLE: Atropisomers of 3-substituted-4-arylquinolin-2-one
derivatives for modulation of calcium-activated
potassium channels
INVENTOR(S): Vrudhula, Vivekananda M.; Gribkoff, Valentin Kala;
Dasgupta, Bireshwar; Boissard, Christopher G.
PATENT ASSIGNEE(S): Bristol-Myers Squibb Company, USA
SOURCE: PCT Int. Appl., 44 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004058260	A1	20040715	WO 2003-US41548	20031218
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US 20040147749	A1	20040729	US 2003-739449	20031217
US 6939968	B2	20050906		
AU 2003300425	A1	20040722	AU 2003-300425	20031218
EP 1575589	A1	20050921	EP 2003-814399	20031218
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
TR 200502440	T2	20051021	TR 2005-2440	20031218
BR 2003017679	A	20051129	BR 2003-17679	20031218
CN 1750821	A	20060322	CN 2003-80109833	20031218
JP 2006512378	T	20060413	JP 2004-562595	20031218
MX 2005PA06814	A	20050908	MX 2005-PA6814	20050621
ZA 2005005077	A	20060927	ZA 2005-5077	20050622
NO 2005003078	A	20050829	NO 2005-3078	20050623

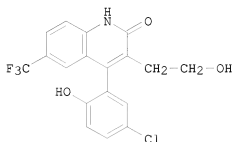
IN 2005DN02882
PRIORITY APPLN. INFO.:

A 20070112
MARPAT 141:117166

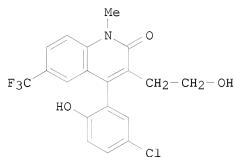
IN 2005-DN2882
US 2002-436160P
WO 2003-US41548

20050628
P 20021223
W 20031218

OTHER SOURCE(S):
GI



I



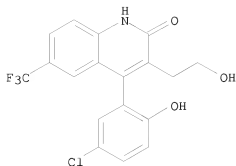
II

AB Atropisomers of 3-substituted-4-arylquinolin-2-one derivs. I and II were prepared. The atropisomers can modulate the large conductance calcium-activated K⁺ channels and are useful in the treatment of disorders which are responsive to the opening of the potassium channels. In addition, the atropisomers can be stable, i.e., do not interconvert, for periods of up to one month, or more. I and II significantly attenuates stress-induced colonic motility in rats.

IT 722497-38-3P 722497-39-4P
RL: PAC (Pharmacological activity); PUR (Purification or recovery); BIOL (Biological study); PREP (Preparation)
(atropisomers of 3-substituted-4-arylquinolin-2-one derivs. for modulation of calcium-activated potassium channels)

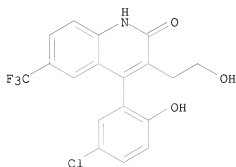
RN 722497-38-3 CAPLUS

CN 2(1H)-Quinolinone, 4-(5-chloro-2-hydroxyphenyl)-3-(2-hydroxyethyl)-6-(trifluoromethyl)-, (-)- (CA INDEX NAME)



RN 722497-39-4 CAPLUS

CN 2(1H)-Quinolinone, 4-(5-chloro-2-hydroxyphenyl)-3-(2-hydroxyethyl)-6-(trifluoromethyl)-, (+)- (CA INDEX NAME)

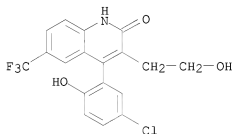


IT 275375-69-4P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(atropisomers of 3-substituted-4-arylquinolin-2-one derivs. for modulation of calcium-activated potassium channels)

RN 275375-69-4 CAPLUS

CN 2(1H)-Quinolinone, 4-(5-chloro-2-hydroxyphenyl)-3-(2-hydroxyethyl)-6-(trifluoromethyl)- (CA INDEX NAME)



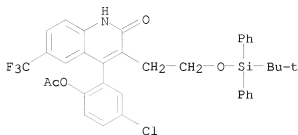
IT 721918-21-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(atropisomers of 3-substituted-4-arylquinolin-2-one derivs. for modulation of calcium-activated potassium channels)

RN 721918-21-4 CAPLUS

CN 2(1H)-Quinolinone, 4-[2-(acetyloxy)-5-chlorophenyl]-3-[2-[(1,1-

dimethylethyl)diphenylsilyloxy]ethyl]-6-(trifluoromethyl)- (CA INDEX NAME)



L28 ANSWER 59 OF 231 CAPLUS COPYRIGHT 2008 ACS on SIN

ACCESSION NUMBER: 2004:550870 CAPLUS

DOCUMENT NUMBER: 141:106476

TITLE: Preparation of heterocyclic compounds as ligands for stabilizing insulin compositions

INVENTOR(S): Kaarsholm, Niels Christian; Madsen, Peter; Schlein, Morten; Olsen, Helle Birk; Havelund, Svend; Steensgaard, Dorte Bjerre; Ludvigsen, Svend; Jakobsen, Palle; Petersen, Anders Klarskov; Schluckebier, Gerd

PATENT ASSIGNEE(S): Novo Nordisk A/S, Den.
SOURCE: PCT Int. Appl., 432 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004056347	A2	20040708	WO 2003-DK931	20031222
WO 2004056347	A3	20040812		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2003291972	A1	20040714	AU 2003-291972	20031222
EP 1585541	A2	20051019	EP 2003-767488	20031222
EP 1585541	B1	20071114		
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JP 2006516966	T	20060713	JP 2005-502527	20031222
AT 378063	T	20071115	AT 2003-767488	20031222
US 20050065066	A1	20050324	US 2004-825995	20040416
PRIORITY APPLN. INFO.:				
			DK 2002-1991	A 20021220
			US 2003-439382P	P 20030110
			WO 2003-DK931	W 20031222

OTHER SOURCE(S): MARPAT 141:106476

GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The present invention provides pharmaceutical compns. comprising insulin and novel ligands for the His B10 Zn²⁺ sites of the R-state insulin hexamer. The ligands belong to different subclasses of compds., e.g., benzotriazoles, 3-hydroxy-2-naphthoic acids, salicylic acids, tetrazoles, thiazolidinediones, 5-mercaptotetrazoles, or 4-cyano-1,2,3-triazoles. Methods for preparing the various classes of ligands included amidation, condensation, and coupling reactions. Compds. of the invention I-IX were evaluated for affinity to the zinc site with K_d values ranging from 3-3,879 nM. Addnl., I-IX were evaluated for retention of fast absorption characteristics of formulations stabilized by addition of ligands and chemical stability of insulin formulations. The resulting prepn's. have improved phys. and chemical stability.

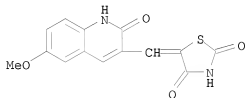
IT 503827-44-9P 503827-49-4P

RL: MOA (Modifier or additive use); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of heterocyclic zinc-binding ligands for use as stabilizing agents for insulin compns.)

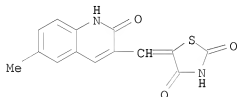
RN 503827-44-9 CAPLUS

CN 2,4-Thiazolidinedione, 5-[(1,2-dihydro-6-methoxy-2-oxo-3-quinolinyl)methylene]- (CA INDEX NAME)



RN 503827-49-4 CAPLUS

CN 2,4-Thiazolidinedione, 5-[(1,2-dihydro-6-methyl-2-oxo-3-quinolinyl)methylene]- (CA INDEX NAME)



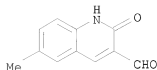
IT 101382-53-0 123990-78-3

RL: RCT (Reactant); RACT (Reactant or reagent)

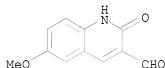
(preparation of heterocyclic zinc-binding ligands for use as stabilizing agents for insulin compns.)

RN 101382-53-0 CAPLUS

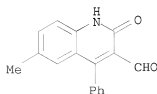
CN 3-Quinolinecarboxaldehyde, 1,2-dihydro-6-methyl-2-oxo- (CA INDEX NAME)



RN 123990-78-3 CAPLUS
CN 3-Quinolinecarboxaldehyde, 1,2-dihydro-6-methoxy-2-oxo- (CA INDEX NAME)



L28 ANSWER 60 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2004:337507 CAPLUS
DOCUMENT NUMBER: 141:54222
TITLE: A new synthesis of 5-substituted-3-phenyl-2H-pyrano[2,3-b]quinolin-2-ones
AUTHOR(S): Kumar, N. Venkatesh; Subramani, B.; Rajendran, S. P.
CORPORATE SOURCE: Department of Chemistry, Bharathiar University, Coimbatore, 641 046, India
SOURCE: Journal of the Indian Chemical Society (2003), 80(10), 918-920
CODEN: JICSAH; ISSN: 0019-4522
PUBLISHER: Indian Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 141:54222
AB Synthesis of title compds. and derivs. is reported by the Perkin reaction of 3-formyl-4-phenyl/methyl-2-quinolones with sodium salt of phenylacetic acid. The 3-formyl-2-quinolones were obtained from 2-chloro-3-formyl-4-phenyl/methylquinolines which in turn were prepared from 2-chloro-4-phenyl/methyl-3-vinylquinolines.
IT 709014-39-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of 5-substituted-3-phenyl-2H-pyrano[2,3-b]quinolin-2-ones)
RN 709014-39-1 CAPLUS
CN 3-Quinolinecarboxaldehyde, 1,2-dihydro-6-methyl-2-oxo-4-phenyl- (CA INDEX NAME)



REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> D L28 61-65

L28 ANSWER 61 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2004:267327 CAPLUS
 DN 140:287412
 TI Preparation of piperazines as dopamine D2 and serotonin 5HT2A receptors inhibitors for the treatment of central nervous system disorders, in particular schizophrenia
 IN Andreana, Tonja Lynn; Cho, Stephen Sung Yong; Graham, James Michael; Gregory, Tracy Fay; Howard, Harry Ralph, Jr.; Kornberg, Brian Edward; Nikam, Sham Shridhar; Pflum, Derek Andrew
 PA Warner-Lambert Company LLC, USA
 SO PCT Int. Appl., 158 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004026864	A1	20040401	WO 2003-IB3902	20030905
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	AU 2003263413	A1	20040408	AU 2003-263413	20030905
	EP 1546143	A1	20050629	EP 2003-797433	20030905
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
	BR 2003014393	A	20050719	BR 2003-14393	20030905
	CN 1701072	A	20051123	CN 2003-825236	20030905
	JP 2006503106	T	20060126	JP 2004-568902	20030905
	US 20040138230	A1	20040715	US 2003-660908	20030912
	MX 2005PA02007	A	20050428	MX 2005-PA2007	20050218
	ZA 2005002216	A	20050926	ZA 2005-2216	20050316
	NO 2005001826	A	20050415	NO 2005-1826	20050415
PRAI	US 2002-411475P	P	20020917		
	US 2002-416355P	P	20021004		
	WO 2003-IB3902	W	20030905		
OS	MARPAT 140:287412				
RE.CNT 3	THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT				

L28 ANSWER 62 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2004:263268 CAPLUS
 DN 141:22988
 TI Chemoselective reduction of α,β -unsaturated carbonyl compounds by sodium hydrogen telluride. Part I
 AU Geethamali, G.; Sundari, A. Suguna; Shanmugam, P.; Rajendran, S. P.
 CS Department of Chemistry, Bharathiar University, Coimbatore, 641 046, India
 SO Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (2004), 43B(3), 674-676
 CODEN: IJSBDB; ISSN: 0376-4699
 PB National Institute of Science Communication
 DT Journal
 LA English

OS CASREACT 141:22988
 RE.CNT 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 63 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2004:258707 CAPLUS
 DN 141:3226
 TI Crystallographic Study of Inhibitors of tRNA-guanine Transglycosylase
 Suggests a New Structure-based Pharmacophore for Virtual Screening
 AU Brenk, Ruth; Meyer, Emmanuel A.; Reuter, Klaus; Stubbs, Milton T.; Garcia,
 George A.; Diederich, Francois; Klebe, Gerhard
 CS Institut für Pharmazeutische Chemie, Philipps-Universität Marburg,
 Marburg, 35032, Germany
 SO Journal of Molecular Biology (2004), 338(1), 55-75
 CODEN: JMOBAK; ISSN: 0022-2836
 PB Elsevier
 DT Journal
 LA English
 RE.CNT 49 THERE ARE 49 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 64 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2003:928960 CAPLUS
 DN 140:111260
 TI Palladium-catalyzed carbonylative annulation of terminal alkynes:
 synthesis of coumarins and 2-quinolones
 AU Kadnikov, Dmitry V.; Larock, Richard C.
 CS Department of Chemistry, Iowa State University, Ames, IA, 50011, USA
 SO Journal of Organometallic Chemistry (2003), 687(2), 425-435
 CODEN: JORCAI; ISSN: 0022-328X
 PB Elsevier Science B.V.
 DT Journal
 LA English
 OS CASREACT 140:111260
 RE.CNT 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 65 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2003:796538 CAPLUS
 DN 139:323440
 TI Preparation of radiolabeled quinolines and quinolinones as metabotropic
 glutamate receptor mGluR1 antagonists for use in positron emission
 tomography.
 IN Lesage, Anne Simone Josephine; Bischoff, Francois Paul; Janssen, Cornelius
 Gerardus Maria; Lavreysen, Hilde
 PA Janssen Pharmaceutica N.V., Belg.
 SO PCT Int. Appl., 148 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2003082350	A2	20031009	WO 2003-EP3240	20030326
WO 2003082350	A3	20040304		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,				
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,				
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,				
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM,				
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT,				
TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,				

KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,
 FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,
 BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

CA 2479109 A1 20031009 CA 2003-2479109 20030326
 AU 2003226737 A1 20031013 AU 2003-226737 20030326
 BR 2003008945 A 20050104 BR 2003-8945 20030326
 EP 1492571 A2 20050105 EP 2003-745282 20030326

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK

CN 1642580 A 20050720 CN 2003-807387 20030326
 JP 2005524679 T 20050818 JP 2003-579882 20030326
 NZ 535438 A 20060831 NZ 2003-535438 20030326
 IN 2004DN02631 A 20050401 IN 2004-DN2631 20040908
 US 20060083676 A1 20060420 US 2004-509069 20040924
 MX 2004PA09435 A 20050125 MX 2004-PA9435 20040928
 ZA 2004007820 A 20051011 ZA 2004-7820 20040928
 NO 2004004635 A 20041027 NO 2004-4635 20041027

PRAI EP 2002-76254 A 20020329
 WO 2003-EP3240 W 20030326

OS MARPAT 139:323440

=> D L28 61 IBIB ABS HITSTR

L28 ANSWER 61 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2004:267327 CAPLUS

DOCUMENT NUMBER: 140:287412

TITLE: Preparation of piperazines as dopamine D2 and
 serotonin 5HT2A receptors inhibitors for the treatment
 of central nervous system disorders, in particular
 schizophrenia

INVENTOR(S): Andreana, Tonja Lynn; Cho, Stephen Sung Yong; Graham,
 James Michael; Gregory, Tracy Fay; Howard, Harry
 Ralph, Jr.; Kornberg, Brian Edward; Nikam, Sham
 Shridhar; Pflum, Derek Andrew

PATENT ASSIGNEE(S): Warner-Lambert Company LLC, USA

SOURCE: PCT Int. Appl., 158 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004026864	A1	20040401	WO 2003-IB3902	20030905
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
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AU 2003263413	A1	20040408	AU 2003-263413	20030905
EP 1546143	A1	20050629	EP 2003-797433	20030905
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
BR 2003014393	A	20050719	BR 2003-14393	20030905

CN 1701072	A	20051123	CN 2003-825236	20030905
JP 2006503106	T	20060126	JP 2004-568902	20030905
US 20040138230	A1	20040715	US 2003-660908	20030912
MX 2005PA02007	A	20050428	MX 2005-PA2007	20050218
ZA 2005002216	A	20050926	ZA 2005-2216	20050316
NO 2005001826	A	20050415	NO 2005-1826	20050415
PRIORITY APPLN. INFO.:			US 2002-411475P	P 20020917
			US 2002-416355P	P 20021004
			WO 2003-1B3902	W 20030905
OTHER SOURCE(S):	MARPAT 140:287412			
GI				

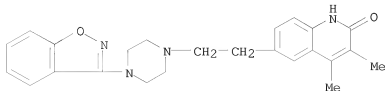
* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Title compds. I [wherein X =S, O, SO, SO₂, CH₂, NH and derivs.; Y, Z = independently N or CH; A = (CH₂)mCH₂, (CH₂)mO, (CH₂)mNR₉, (CH₂)mC(R₇R₈); R₇, R₈ = independently (un)substituted alkyl, alkoxy, or CR₇R₈ = carbonyl; m = 1-4; R₄, R₅ = independently H, (un)substituted alkyl, alkoxy, or when X = NR₆ and derivs., CR₄R₅R₆N = 4-7 membered heterocyclyl ring, with the proviso that when R₉R₄ or R₉R₅ = a ring, the other of R₄ and R₅ is absent; R₉ = H, (un)substituted alkyl, alkoxy; R₆ = H, (un)substituted alkyl, alkoxy; R₁ = H, (un)substituted alkyl; R₂, R₃ = independently H, halo, hetero/aryl, (un)substituted aryl/heteroarylalkyl, alkoxy, etc.; V, W = independently CH₂ and derivs. or CH and derivs.; and their pharmaceutically acceptable salts] were prepared s dopamine D₂ and serotonin 5HT_{2A} receptors inhibitors for treating central nervous system disorders, in particular schizophrenia (no data). For example, II•MeSO₃H was prepared by acylation of 3-chloro-2-methylaniline with 3,3-diethylacryloyl chloride, one-pot Friedel-Craft alkylation with chloroacetyl chloride and cyclization in the presence of AlCl₃ to chloroacetylquinoline intermediate, reduction to chloroethylquinoline III, alkylation of 3-(piperazin-1-yl)benzo[d]isothiazole hydrochloride with III, followed by salt formation of II with methanesulfonic acid. II acted as dopamine D₂ and serotonin 5HT_{2A} receptors inhibitors with a K_i value of 0.9 nM and 1 nM, resp. Thus, I and their formulations are useful for treating central nervous system disorders, in particular schizophrenia and depression.

IT 676115-82-5P 676117-11-6P, 6-[2-[4-(Benzo[d]isothiazol-3-yl)piperazin-1-yl]ethyl]-3,4-dimethyl-1H-quinolin-2-one
 RL: CRT (Combinatorial reactant); PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); CMBI (Combinatorial study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
 (drug candidate; preparation of piperazines for treating of central nervous system disorders, in particular schizophrenia)

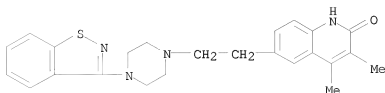
RN 676115-82-5 CAPLUS

CN 2(1H)-Quinolinone, 6-[2-[4-(1,2-benzisoxazol-3-yl)-1-piperazinyl]ethyl]-3,4-dimethyl- (CA INDEX NAME)



RN 676117-11-6 CAPLUS

CN 2(1H)-Quinolinone, 6-[2-[4-(1,2-benzisothiazol-3-yl)-1-piperazinyl]ethyl]-3,4-dimethyl- (CA INDEX NAME)

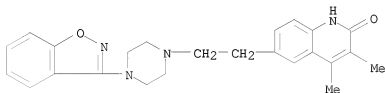


IT 676115-79-0P 676117-14-9P, 6-[2-[4-(Benzo[d]isothiazol-3-yl)piperazin-1-yl]ethyl]-3-ethyl-4-methyl-1H-quinolin-2-one 676117-98-9P, 6-[2-[4-(5-Fluoro-benzo[d]isoxazol-3-yl)piperazin-1-yl]ethyl]-3,4-dimethyl-1H-quinolin-2-one 676117-99-0P, 6-[2-[4-(6-Fluoro-benzo[d]isoxazol-3-yl)piperazin-1-yl]ethyl]-3,4-dimethyl-1H-quinolin-2-one 676118-01-7P, 6-[2-[4-(5-Chloro-benzo[d]isoxazol-3-yl)piperazin-1-yl]ethyl]-3,4-dimethyl-1H-quinolin-2-one 676118-02-8P, 6-[2-[4-(5-Methoxy-benzo[d]isothiazol-3-yl)piperazin-1-yl]ethyl]-3,4-dimethyl-1H-quinolin-2-one 676118-03-9P, 6-[2-[4-(7-Fluoro-benzo[d]isothiazol-3-yl)piperazin-1-yl]ethyl]-3,4-dimethyl-1H-quinolin-2-one 676118-05-1P, 6-[2-[4-(6-Fluoro-benzo[d]isothiazol-3-yl)piperazin-1-yl]ethyl]-3,4-dimethyl-1H-quinolin-2-one 676118-06-2P, 6-[2-[4-(5-Fluoro-benzo[d]isothiazol-3-yl)piperazin-1-yl]ethyl]-3,4-dimethyl-1H-quinolin-2-one 676118-07-3P, 6-[2-[4-(6-Fluoro-benzo[d]isothiazol-3-yl)piperidin-1-yl]ethyl]-3,4-dimethyl-1H-quinolin-2-one 676118-08-4P, 6-[2-[4-(6-Fluoro-benzo[d]isoxazol-3-yl)piperidin-1-yl]ethyl]-3,4-dimethyl-1H-quinolin-2-one 676118-09-5P, 6-[2-[4-(1H-Indazol-3-yl)-piperazin-1-yl]ethyl]-3,4-dimethyl-1H-quinolin-2-one
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(drug candidate; preparation of piperazines for treating of central nervous system disorders, in particular schizophrenia)

RN 676115-79-0 CAPLUS

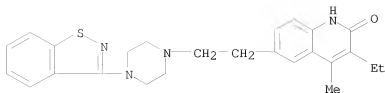
CN 2(1H)-Quinolinone, 6-[2-[4-(1,2-benzisoxazol-3-yl)-1-piperazinyl]ethyl]-3,4-dimethyl-, monohydrochloride (9CI) (CA INDEX NAME)



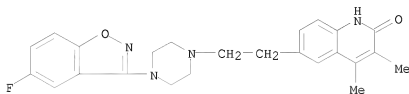
● HCl

RN 676117-14-9 CAPLUS

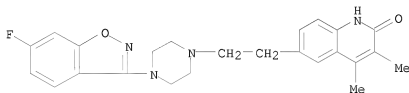
CN 2(1H)-Quinolinone, 6-[2-[4-(1,2-benzisothiazol-3-yl)-1-piperazinyl]ethyl]-3-ethyl-4-methyl- (CA INDEX NAME)



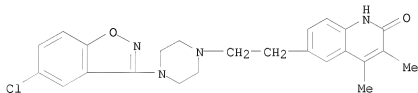
RN 676117-98-9 CAPLUS
 CN 2(1H)-Quinolinone, 6-[2-[4-(5-fluoro-1,2-benzisoxazol-3-yl)-1-piperazinyl]ethyl]-3,4-dimethyl- (CA INDEX NAME)



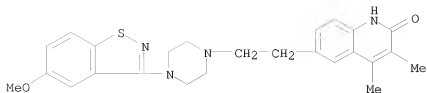
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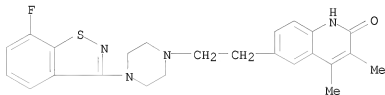
RN 676118-01-7 CAPLUS
 CN 2(1H)-Quinolinone, 6-[2-[4-(5-chloro-1,2-benzisoxazol-3-yl)-1-piperazinyl]ethyl]-3,4-dimethyl- (CA INDEX NAME)



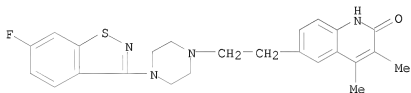
RN 676118-02-8 CAPLUS
 CN 2(1H)-Quinolinone, 6-[2-[4-(5-methoxy-1,2-benzisothiazol-3-yl)-1-piperazinyl]ethyl]-3,4-dimethyl- (CA INDEX NAME)



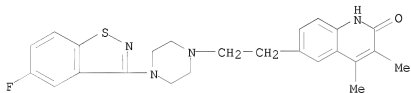
RN 676118-03-9 CAPLUS
 CN 2(1H)-Quinolinone, 6-[2-[4-(7-fluoro-1,2-benzisothiazol-3-yl)-1-piperazinyl]ethyl]-3,4-dimethyl- (CA INDEX NAME)



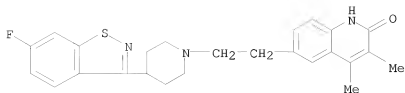
RN 676118-05-1 CAPLUS
 CN 2(1H)-Quinolinone, 6-[2-[4-(6-fluoro-1,2-benzisothiazol-3-yl)-1-piperazinyl]ethyl]-3,4-dimethyl- (CA INDEX NAME)



RN 676118-06-2 CAPLUS
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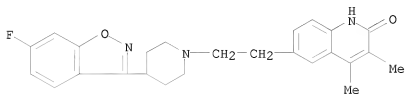


RN 676118-07-3 CAPLUS
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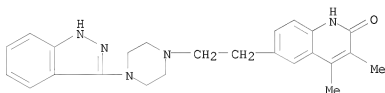
RN 676118-08-4 CAPLUS

CN 2(1H)-Quinololinone, 6-[2-[4-(6-fluoro-1,2-benzisoxazol-3-yl)-1-piperidinyl]ethyl]-3,4-dimethyl- (CA INDEX NAME)



RN 676118-09-5 CAPLUS

CN 2(1H)-Quinololinone, 6-[2-[4-(1H-indazol-3-yl)-1-piperazinyl]ethyl]-3,4-dimethyl- (CA INDEX NAME)



IT 676115-80-3P, 6-(2-Chloroacetyl)-3,4-dimethyl-1H-quinolin-2-one

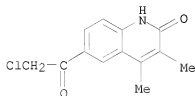
676115-81-4P, 6-(2-Chloroethyl)-3,4-dimethyl-1H-quinolin-2-one

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(intermediate; preparation of piperazines for treating of central nervous system disorders, in particular schizophrenia)

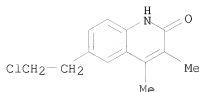
RN 676115-80-3 CAPLUS

CN 2(1H)-Quinololinone, 6-(chloroacetyl)-3,4-dimethyl- (9CI) (CA INDEX NAME)



RN 676115-81-4 CAPLUS

CN 2(1H)-Quinololinone, 6-(2-chloroethyl)-3,4-dimethyl- (CA INDEX NAME)



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> D L28 64-65 IBIB ABS HITSTR

L28 ANSWER 64 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2003:928960 CAPLUS

DOCUMENT NUMBER: 140:111260

TITLE: Palladium-catalyzed carbonylative annulation of terminal alkynes: synthesis of coumarins and 2-quinolones

AUTHOR(S): Kadnikov, Dmitry V.; Larock, Richard C.

CORPORATE SOURCE: Department of Chemistry, Iowa State University, Ames, IA, 50011, USA

SOURCE: Journal of Organometallic Chemistry (2003), 687(2), 425-435

CODEN: JORCAI; ISSN: 0022-328X

PUBLISHER: Elsevier Science B.V.

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 140:111260

AB O-Iodophenols and o-iodoaniline derivs. react with terminal alkynes under 1 atm of CO in the presence of pyridine and catalytic amts. of Pd(OAc)₂ to generate coumarins and 2-quinolones, resp., as the only products.

Terminal alkynes bearing alkyl, aryl, silyl, hydroxyl, ester and cyano substituents are effective in these processes affording the desired products in moderate yields. The formation of coumarins and 2-quinolones in this process is in Stark contrast with all previously described Pd-catalyzed reactions of o-iodophenols or o-iodoanilines with terminal alkynes and CO, which have afforded chromones and 4-quinolones. Also, under the authors' reaction conditions terminal alkynes insert into the C-Pd bond instead of undergoing a Sonogashira-type coupling as confirmed by an isotope labeling experiment

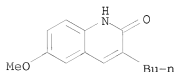
IT 647836-49-5P, 3-(Butyl)-6-methoxy-2-quinolone

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of coumarins and quinolinones by carbonylative annulation of terminal alkynes with iodophenols and iodoanilines)

RN 647836-49-5 CAPLUS

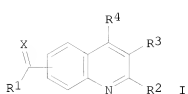
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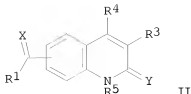
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L28 ANSWER 65 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2003:796538 CAPLUS
 DOCUMENT NUMBER: 139:323440
 TITLE: Preparation of radiolabeled quinolines and
 quinolinones as metabotropic glutamate receptor mGluR1
 antagonists for use in positron emission tomography.
 INVENTOR(S): Lesage, Anne Simone Josephine; Bischoff, Francois
 Paul; Janssen, Cornelius Gerardus Maria; Lavreysen,
 Hilde
 PATENT ASSIGNEE(S): Janssen Pharmaceutica N.V., Belg.
 SOURCE: PCT Int. Appl., 148 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

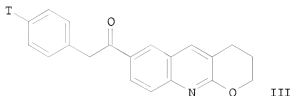
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003082350	A2	20031009	WO 2003-EP3240	20030326
WO 2003082350	A3	20040304		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
CA 2479109	A1	20031009	CA 2003-2479109	20030326
AU 2003226737	A1	20031013	AU 2003-226737	20030326
BR 2003008945	A	20050104	BR 2003-8945	20030326
EP 1492571	A2	20050105	EP 2003-745282	20030326
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK			
CN 1642580	A	20050720	CN 2003-807387	20030326
JP 2005524679	T	20050818	JP 2003-579882	20030326
NZ 535438	A	20060831	NZ 2003-535438	20030326
IN 2004DN02631	A	20050401	IN 2004-DN2631	20040908
US 20060083676	A1	20060420	US 2004-509069	20040924
MX 2004PA09435	A	20050125	MX 2004-PA9435	20040928
ZA 2004007820	A	20051011	ZA 2004-7820	20040928
NO 2004004635	A	20041027	NO 2004-4635	20041027
PRIORITY APPLN. INFO.:			EP 2002-76254	A 20020329
			WO 2003-EP3240	W 20030326
OTHER SOURCE(S):	MARPAT 139:323440			
GI				



I



II



III

AB Radiolabeled title compds. [I, II; X = O, S, C(R6)2, NR7; Y = O, S; R1 = (substituted) alkyl, cycloalkyl, cycloalkylalkyl, thienyl, quinolinyl, etc.; R2 = H, halo, cyano, alkyl, amino, heterocyclyl, etc.; R3, R4 = H, halo, OH, cyano, alkyl, alkoxy, etc.; R2R3 = (CH2)3-6, Z4CH2CH2CH2, Z4CH2CH2, etc.; Z4 = O, S, SO2, NR11; R11 = H, alkyl, PhCH2, alkoxy, carbonyl; R3R4 = (CH2)4, CH:CHCH:CH; R5 = H, cycloalkyl, piperidinyl, oxothienyl, tetrahydrothienyl, aralkyl, alkoxyalkyl, etc.; R6 = H, aryl, alkyl, aminoalkyl; R7 = amino, OH], were prepared. Most preferred are radiolabeled compds. in which the radioactive isotope is selected from 3H, 11C and 18F. The invention also relates to their use in a diagnostic method, in particular for marking and identifying a mGluR1 receptor in biol. material, as well as to their use for imaging an organ, in particular using positron emission tomog. (PET). Thus, title compound (III) was prepared by tritiation of the corresponding bromide in THF using tritium gas and Pd/C catalyst. The purified product showed specific activity of 25 Ci/mmol.

IT 409340-69-8P 409340-70-1P 409340-98-3P
 409341-14-6P 409344-31-6P 409344-32-7P
 409344-33-8P 409344-34-9P 409344-35-0P
 409344-36-1P 409344-37-2P 409344-38-3P
 409344-39-4P 409344-41-8P 409344-42-9P
 409344-43-0P 409344-44-1P 409344-45-2P
 409344-47-4P 409344-48-5P 409344-50-9P
 409344-52-1P 409344-54-3P 409344-56-5P
 409344-58-7P 409344-60-1P 409344-62-3P
 409344-64-5P 409344-66-7P 409344-68-9P
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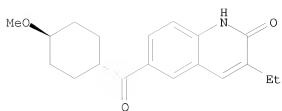
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of radiolabeled quinolines and quinolinones as metabotropic glutamate receptor mGluR1 antagonists for use in positron emission tomog.)

RN 409340-69-8 CAPLUS

CN 2(1H)-Quinolinone, 3-ethyl-6-[(trans-4-methoxycyclohexyl)carbonyl]- (CA INDEX NAME)

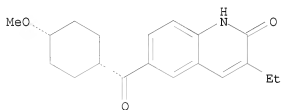
Relative stereochemistry.



RN 409340-70-1 CAPLUS

CN 2(1H)-Quinolinone, 3-ethyl-6-[(cis-4-methoxycyclohexyl)carbonyl]- (CA INDEX NAME)

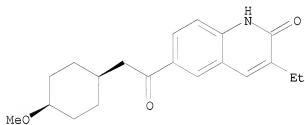
Relative stereochemistry.



RN 409340-98-3 CAPLUS

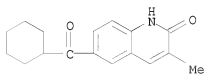
CN 2(1H)-Quinolinone, 3-ethyl-6-[(cis-4-methoxycyclohexyl)acetyl]- (9CI) (CA INDEX NAME)

Relative stereochemistry.



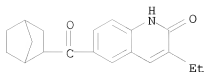
RN 409341-14-6 CAPLUS

CN 2(1H)-Quinolinone, 6-(cyclohexylcarbonyl)-3-methyl- (CA INDEX NAME)



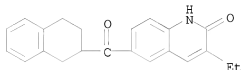
RN 409344-31-6 CAPLUS

CN 2(1H)-Quinolinone, 6-(bicyclo[2.2.1]hept-2-ylcarbonyl)-3-ethyl- (CA INDEX NAME)



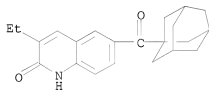
RN 409344-32-7 CAPLUS

CN 2(1H)-Quinolinone, 3-ethyl-6-[(1,2,3,4-tetrahydro-2-naphthalenyl)carbonyl]-
(CA INDEX NAME)



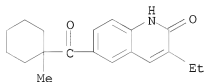
RN 409344-33-8 CAPLUS

CN 2(1H)-Quinolinone, 3-ethyl-6-(tricyclo[3.3.1.1.3,7]dec-1-ylcarbonyl)-
(CA INDEX NAME)



RN 409344-34-9 CAPLUS

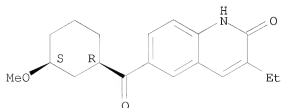
CN 2(1H)-Quinolinone, 3-ethyl-6-[(1-methylcyclohexyl)carbonyl]-
(CA INDEX NAME)



RN 409344-35-0 CAPLUS

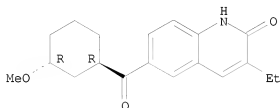
CN 2(1H)-Quinolinone, 3-ethyl-6-[[(1R,3S)-3-methoxycyclohexyl]carbonyl]-,
rel- (CA INDEX NAME)

Relative stereochemistry.

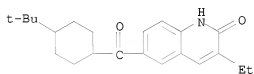


RN 409344-36-1 CAPLUS
 CN 2(1H)-Quinolinone, 3-ethyl-6-[[(1R,3R)-3-methoxycyclohexyl]carbonyl]-,
 rel- (CA INDEX NAME)

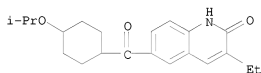
Relative stereochemistry.



RN 409344-37-2 CAPLUS
 CN 2(1H)-Quinolinone, 6-[[4-(1,1-dimethylethyl)cyclohexyl]carbonyl]-3-ethyl-
 (CA INDEX NAME)

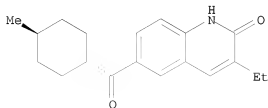


RN 409344-38-3 CAPLUS
 CN 2(1H)-Quinolinone, 3-ethyl-6-[[4-(1-methylethoxy)cyclohexyl]carbonyl]-
 (CA INDEX NAME)

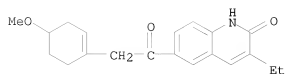


RN 409344-39-4 CAPLUS
 CN 2(1H)-Quinolinone, 3-ethyl-6-[(trans-4-methylcyclohexyl)carbonyl]- (CA
 INDEX NAME)

Relative stereochemistry.

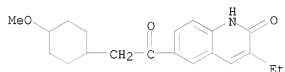


RN 409344-41-8 CAPLUS
 CN 2(1H)-Quinolinone, 3-ethyl-6-[(4-methoxy-1-cyclohexen-1-yl)acetyl]- (9CI)
 (CA INDEX NAME)



RN 409344-42-9 CAPLUS

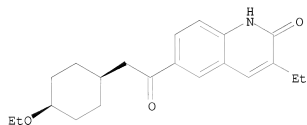
CN 2(1H)-Quinolinone, 3-ethyl-6-[(4-methoxycyclohexyl)acetyl]- (9CI) (CA INDEX NAME)



RN 409344-43-0 CAPLUS

CN 2(1H)-Quinolinone, 6-[(cis-4-ethoxycyclohexyl)acetyl]-3-ethyl- (9CI) (CA INDEX NAME)

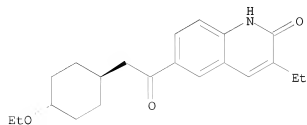
Relative stereochemistry.



RN 409344-44-1 CAPLUS

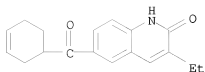
CN 2(1H)-Quinolinone, 6-[(trans-4-ethoxycyclohexyl)acetyl]-3-ethyl- (9CI) (CA INDEX NAME)

Relative stereochemistry.

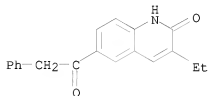


RN 409344-45-2 CAPLUS

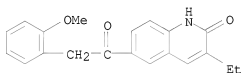
CN 2(1H)-Quinolinone, 6-(3-cyclohexen-1-ylcarbonyl)-3-ethyl- (CA INDEX NAME)



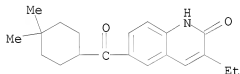
RN 409344-47-4 CAPLUS
 CN 2(1H)-Quinolinone, 3-ethyl-6-(phenylacetyl)- (9CI) (CA INDEX NAME)



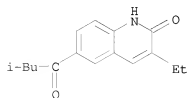
RN 409344-48-5 CAPLUS
 CN 2(1H)-Quinolinone, 3-ethyl-6-[(2-methoxyphenyl)acetyl]- (9CI) (CA INDEX NAME)



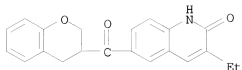
RN 409344-50-9 CAPLUS
 CN 2(1H)-Quinolinone, 6-[(4,4-dimethylcyclohexyl)carbonyl]-3-ethyl- (CA INDEX NAME)



RN 409344-52-1 CAPLUS
 CN 2(1H)-Quinolinone, 3-ethyl-6-(3-methyl-1-oxobutyl)- (CA INDEX NAME)

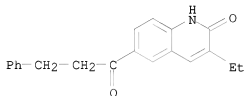


RN 409344-54-3 CAPLUS
 CN 2(1H)-Quinolinone, 6-[(3,4-dihydro-2H-1-benzopyran-3-yl)carbonyl]-3-ethyl- (CA INDEX NAME)



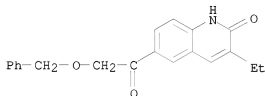
RN 409344-56-5 CAPLUS

CN 2(1H)-Quinolinone, 3-ethyl-6-(1-oxo-3-phenylpropyl)- (CA INDEX NAME)



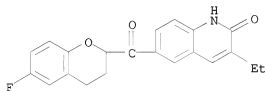
RN 409344-58-7 CAPLUS

CN 2(1H)-Quinolinone, 3-ethyl-6-[(phenylmethoxy)acetyl]- (9CI) (CA INDEX NAME)



RN 409344-60-1 CAPLUS

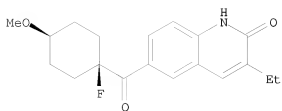
CN 2(1H)-Quinolinone, 3-ethyl-6-[(6-fluoro-3,4-dihydro-2H-1-benzopyran-2-yl)carbonyl]- (CA INDEX NAME)



RN 409344-62-3 CAPLUS

CN 2(1H)-Quinolinone, 3-ethyl-6-[(cis-1-fluoro-4-methoxycyclohexyl)carbonyl]- (CA INDEX NAME)

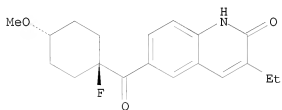
Relative stereochemistry.



RN 409344-64-5 CAPLUS

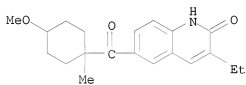
CN 2(1H)-Quinolinone, 3-ethyl-6-[(trans-1-fluoro-4-methoxycyclohexyl)carbonyl]- (CA INDEX NAME)

Relative stereochemistry.



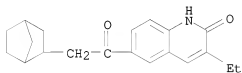
RN 409344-66-7 CAPLUS

CN 2(1H)-Quinolinone, 3-ethyl-6-[(4-methoxy-1-methylcyclohexyl)carbonyl]- (CA INDEX NAME)



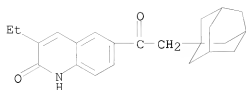
RN 409344-68-9 CAPLUS

CN 2(1H)-Quinolinone, 6-(bicyclo[2.2.1]hept-2-ylacetyl)-3-ethyl- (9CI) (CA INDEX NAME)



RN 409344-70-3 CAPLUS

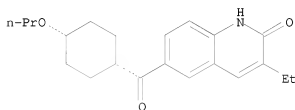
CN 2(1H)-Quinolinone, 3-ethyl-6-(tricyclo[3.3.1.1.3,7]dec-1-ylacetyl)- (9CI) (CA INDEX NAME)



RN 409344-72-5 CAPLUS

CN 2 (1H)-Quinolinone, 3-ethyl-6-[(cis-4-propoxycyclohexyl)carbonyl]- (CA INDEX NAME)

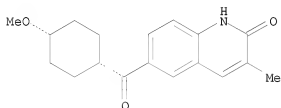
Relative stereochemistry.



RN 409344-79-2 CAPLUS

CN 2 (1H)-Quinolinone, 6-[(cis-4-methoxycyclohexyl)carbonyl]-3-methyl- (CA INDEX NAME)

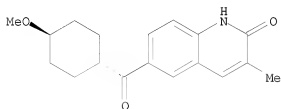
Relative stereochemistry.



RN 409344-81-6 CAPLUS

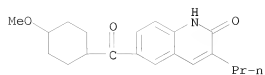
CN 2 (1H)-Quinolinone, 6-[(trans-4-methoxycyclohexyl)carbonyl]-3-methyl- (CA INDEX NAME)

Relative stereochemistry.



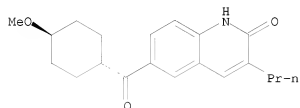
RN 409344-83-8 CAPLUS

CN 2 (1H)-Quinolinone, 6-[(4-methoxycyclohexyl)carbonyl]-3-propyl- (CA INDEX NAME)



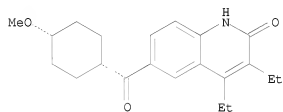
RN 409344-85-0 CAPLUS
 CN 2(1H)-Quinolinone, 6-[(trans-4-methoxycyclohexyl)carbonyl]-3-propyl- (CA
 INDEX NAME)

Relative stereochemistry.



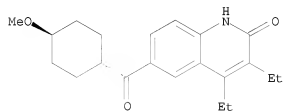
RN 409344-89-4 CAPLUS
 CN 2(1H)-Quinolinone, 3,4-diethyl-6-[(cis-4-methoxycyclohexyl)carbonyl]- (CA
 INDEX NAME)

Relative stereochemistry.

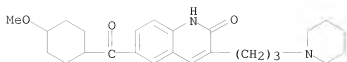


RN 409344-91-8 CAPLUS
 CN 2(1H)-Quinolinone, 3,4-diethyl-6-[(trans-4-methoxycyclohexyl)carbonyl]-
 (CA INDEX NAME)

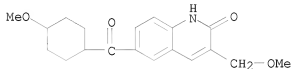
Relative stereochemistry.



RN 409345-13-7 CAPLUS
 CN 2(1H)-Quinolinone, 6-[(4-methoxycyclohexyl)carbonyl]-3-[3-(1-
 piperidinyl)propyl]- (CA INDEX NAME)



RN 409345-14-8 CAPLUS
 CN 2(1H)-Quinolinone, 6-[(4-methoxycyclohexyl)carbonyl]-3-(methoxymethyl)-
 (CA INDEX NAME)



=> D L28 66-231 IBIB ABS HITSTR

L28 ANSWER 66 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2003:474114 CAPLUS

DOCUMENT NUMBER: 139:395891

TITLE: Synthesis and evaluation of antibacterial activities of hydrazones of 6-nitro-1,4-quinoxaline derivatives
 AUTHOR(S): Khan, Suroor A.; Siddiqui, Anees A.; Rehman, Zia Ur
 CORPORATE SOURCE: Department of Pharmaceutical Chemistry, Faculty of Pharmacy, Jamia Hamdard, New Delhi, 110 062, India
 SOURCE: Oriental Journal of Chemistry (2003), 19(1), 237-238
 CODEN: OJCHEG; ISSN: 0970-020X

PUBLISHER: Oriental Scientific Publishing Co.

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 139:395891

AB Hydrazones of 6-nitro-1,4-quinoxaline derivs. are synthesized by condensing substituted quinoxalines and hydrazine hydrate, followed by reaction with resp. aldehydes. These are characterized on the basis of IR, NMR and mass spectral data. The final compds. were evaluated for antibacterial activity by taking Staphylococcus aureus as test organism.

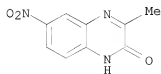
IT 19801-10-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and evaluation of antibacterial activities of hydrazones of 6-nitro-1,4-quinoxaline derivs.)

RN 19801-10-6 CAPLUS

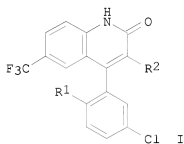
CN 2(1H)-Quinoxalinone, 3-methyl-6-nitro- (CA INDEX NAME)



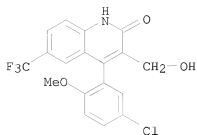
REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 67 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2003:410902 CAPLUS
 DOCUMENT NUMBER: 139:133450
 TITLE: 4-Aryl-3-(hydroxyalkyl)quinolin-2-ones: Novel Maxi-K Channel Opening Relaxants of Corporal Smooth Muscle Targeted for Erectile Dysfunction
 AUTHOR(S): Hewawasam, Piyasena; Fan, Wenhong; Ding, Min; Flint, Kim; Cook, Deborah; Goggins, Gregory D.; Myers, Robert A.; Gribkoff, Valentin K.; Boissard, Christopher G.; Dworetzky, Steven I.; Starrett, John E., Jr.; Lodge, Nicholas J.
 CORPORATE SOURCE: Departments of Chemistry and Neuroscience/Genitourinary Drug Discovery, Bristol-Myers Squibb Pharmaceutical Research Institute, Wallingford, CT, 06492, USA
 SOURCE: Journal of Medicinal Chemistry (2003), 46(14), 2819-2822
 CODEN: JMCMAR; ISSN: 0022-2623
 PUBLISHER: American Chemical Society
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 139:133450
 GI



AB Novel 4-aryl-3-(hydroxyalkyl)quinoline-2-ones I [R1 = HO, MeO; R2 = HO(CH2)n, n = 1 - 3; R2 = (E)-HOCH2CH:CH] were prepared and evaluated as openers of the cloned maxi-K channel hSlo expressed in *Xenopus laevis* oocytes by utilizing electrophysiol. methods. The effect of these maxi-K openers on corporal smooth muscle was studied in vitro using isolated rabbit corpus cavernosum. A potent maxi-K opener was identified as an effective relaxant of rabbit corporal smooth muscle and shown to be active in an in vivo animal model of male erectile function.
 IT 275375-51-4P
 RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of aryl(hydroxyalkyl)quinolinones as maxi-K channel opening relaxants of corporal smooth muscle targeted for erectile dysfunction)
 RN 275375-51-4 CAPLUS
 CN 2(1H)-Quinolinone, 4-(5-chloro-2-methoxyphenyl)-3-(hydroxymethyl)-6-(trifluoromethyl)- (CA INDEX NAME)



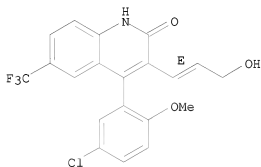
IT 275375-55-8P 275375-57-0P 275375-58-1P
 275375-61-6P 275375-64-9P 275375-69-4P
 275375-70-7P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL
 (Biological study); PREP (Preparation)
 (preparation of aryl(hydroxyalkyl)quinolinones as maxi-K channel opening
 relaxants of corporal smooth muscle targeted for erectile dysfunction)

RN 275375-55-8 CAPLUS

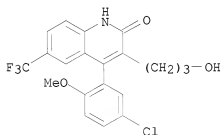
CN 2(1H)-Quinolinone, 4-(5-chloro-2-methoxyphenyl)-3-[(1E)-3-hydroxy-1-
 propenyl]-6-(trifluoromethyl)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



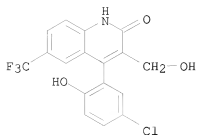
RN 275375-57-0 CAPLUS

CN 2(1H)-Quinolinone, 4-(5-chloro-2-methoxyphenyl)-3-(3-hydroxypropyl)-6-
 (trifluoromethyl)- (CA INDEX NAME)



RN 275375-58-1 CAPLUS

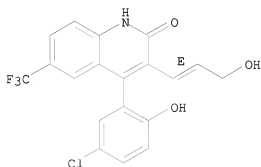
CN 2(1H)-Quinolinone, 4-(5-chloro-2-hydroxyphenyl)-3-(hydroxymethyl)-6-
 (trifluoromethyl)- (CA INDEX NAME)



RN 275375-61-6 CAPLUS

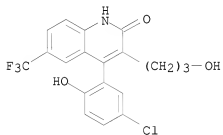
CN 2(1H)-Quinolinone, 4-(5-chloro-2-hydroxyphenyl)-3-[(1E)-3-hydroxy-1-propenyl]-6-(trifluoromethyl)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



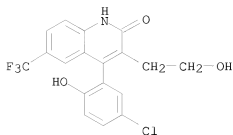
RN 275375-64-9 CAPLUS

CN 2(1H)-Quinolinone, 4-(5-chloro-2-hydroxyphenyl)-3-(3-hydroxypropyl)-6-(trifluoromethyl)- (CA INDEX NAME)

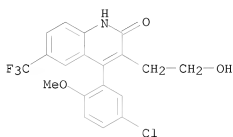


RN 275375-69-4 CAPLUS

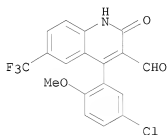
CN 2(1H)-Quinolinone, 4-(5-chloro-2-hydroxyphenyl)-3-(2-hydroxyethyl)-6-(trifluoromethyl)- (CA INDEX NAME)



RN 275375-70-7 CAPLUS
 CN 2(1H)-Quinolinone, 4-(5-chloro-2-methoxyphenyl)-3-(2-hydroxyethyl)-6-(trifluoromethyl)- (CA INDEX NAME)

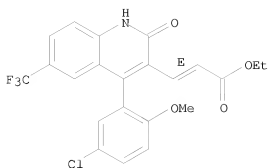


IT 275375-53-6P 275375-54-7P 275375-59-2P
 275375-63-8P 275376-03-9P 568565-36-6P
 568565-37-7P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of aryl(hydroxyalkyl)quinolinones as maxi-K channel opening relaxants of corporal smooth muscle targeted for erectile dysfunction)
 RN 275375-53-6 CAPLUS
 CN 3-Quinolinedicarboxaldehyde, 4-(5-chloro-2-methoxyphenyl)-1,2-dihydro-2-oxo-6-(trifluoromethyl)- (CA INDEX NAME)



RN 275375-54-7 CAPLUS
 CN 2-Propenoic acid, 3-[4-(5-chloro-2-methoxyphenyl)-1,2-dihydro-2-oxo-6-(trifluoromethyl)-3-quinolinyl]-, ethyl ester, (2E)- (CA INDEX NAME)

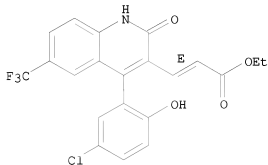
Double bond geometry as shown.



RN 275375-59-2 CAPLUS

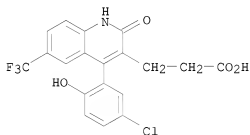
CN 2-Propenoic acid, 3-[4-(5-chloro-2-hydroxyphenyl)-1,2-dihydro-2-oxo-6-(trifluoromethyl)-3-quinolinyl]-, ethyl ester, (2E)- (CA INDEX NAME)

Double bond geometry as shown.



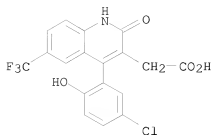
RN 275375-63-8 CAPLUS

CN 3-Quinolinepropanoic acid, 4-(5-chloro-2-hydroxyphenyl)-1,2-dihydro-2-oxo-6-(trifluoromethyl)- (CA INDEX NAME)

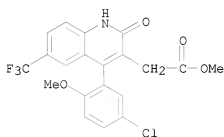


RN 275376-03-9 CAPLUS

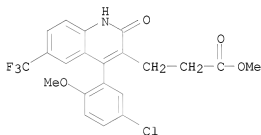
CN 3-Quinolineacetic acid, 4-(5-chloro-2-hydroxyphenyl)-1,2-dihydro-2-oxo-6-(trifluoromethyl)- (CA INDEX NAME)



RN 568565-36-6 CAPLUS
 CN 3-Quinolineacetic acid, 4-(5-chloro-2-methoxyphenyl)-1,2-dihydro-2-oxo-6-(trifluoromethyl)-, methyl ester (CA INDEX NAME)



RN 568565-37-7 CAPLUS
 CN 3-Quinolinepropanoic acid, 4-(5-chloro-2-methoxyphenyl)-1,2-dihydro-2-oxo-6-(trifluoromethyl)-, methyl ester (CA INDEX NAME)



REFERENCE COUNT: 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 68 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2003:345338 CAPLUS

DOCUMENT NUMBER: 139:230597

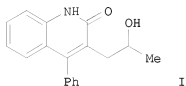
TITLE: A mild and efficient synthesis of 4-aryl-quinolin-2(1H)-ones via a tandem amidation/Knoevenagel condensation of 2-amino-benzophenones with esters or lactones

AUTHOR(S): Wang, Jianji; Discordia, Robert P.; Crispino, Gerard A.; Li, Jun; Grosso, John A.; Polniaszek, Richard; Truc, Vu C.

CORPORATE SOURCE: Process Research & Development, Bristol-Myers Squibb Pharmaceutical Research Institute, New Brunswick, NJ, 08903, USA

SOURCE: Tetrahedron Letters (2003), 44(22), 4271-4273
 CODEN: TELEAY; ISSN: 0040-4039

PUBLISHER: Elsevier Science Ltd.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 139:230597
 GI



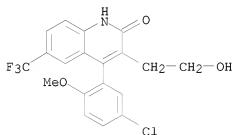
AB Using LiHMDS as the base, a tandem amidation/Knoevenagel condensation of 2-aminobenzophenones with α -methylene esters or lactones gives 4-aryl-quinolin-2(1H)-ones, e.g. I, in 65-96% yield. This method is mild, highly efficient, and amenable to scaleup.

IT 275375-70-7P 592479-28-2P 593280-94-5P
 593280-99-0P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (mild and efficient synthesis of arylquinolinones via tandem amidation
 Knoevenagel/condensation of aminobenzophenones with esters or lactones)

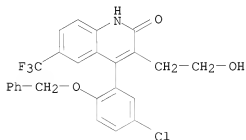
RN 275375-70-7 CAPLUS

CN 2(1H)-Quinolinone, 4-(5-chloro-2-methoxyphenyl)-3-(2-hydroxyethyl)-6-(trifluoromethyl)- (CA INDEX NAME)



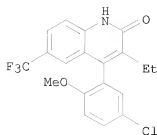
RN 592479-28-2 CAPLUS

CN 2(1H)-Quinolinone, 4-(5-chloro-2-(phenylmethoxy)phenyl)-3-(2-hydroxyethyl)-6-(trifluoromethyl)- (CA INDEX NAME)

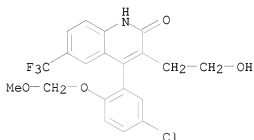


RN 593280-94-5 CAPLUS

CN 2(1H)-Quinolinone, 4-(5-chloro-2-methoxyphenyl)-3-ethyl-6-(trifluoromethyl)- (CA INDEX NAME)

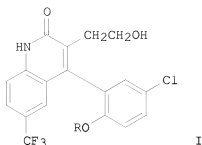


RN 593280-99-0 CAPLUS
 CN 2(1H)-Quinolinone, 4-[5-chloro-2-(methoxymethoxy)phenyl]-3-(2-hydroxyethyl)-6-(trifluoromethyl)- (CA INDEX NAME)



REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 69 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2003:345281 CAPLUS
 DOCUMENT NUMBER: 139:230595
 TITLE: Selective removal of a benzyl protecting group in the presence of an aryl chloride under gaseous and transfer hydrogenolysis conditions
 AUTHOR(S): Li, Jun; Wang, Steve; Crispino, Gerard A.; Tenhuisen, Karen; Singh, Ambarish; Grosso, John A.
 CORPORATE SOURCE: Pharmaceutical Research Institute, Process Research & Development, Bristol-Myers Squibb Co., New Brunswick, NJ, 08903-0191, USA
 SOURCE: Tetrahedron Letters (2003), 44(21), 4041-4043
 CODEN: TELEAY; ISSN: 0040-4039
 PUBLISHER: Elsevier Science Ltd.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 139:230595
 GI

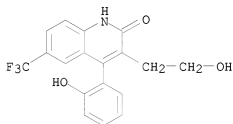


AB Selective removal of a benzyl protecting group in the presence of an aryl chloride, i.e., I (R = benzyl) → I (R = H), using Pd/C under gaseous and transfer hydrogenolysis conditions is described. The addition of chloride salts to the debenzilation reaction provides excellent selectivity, i.e., the amount of dechlorination product is minimized.

IT 592479-29-3P
 RL: BYP (Byproduct); PREP (Preparation)
 (selective removal of benzyl protecting group in presence of aryl chloride under gaseous and transfer hydrogenolysis conditions)

RN 592479-29-3 CAPLUS

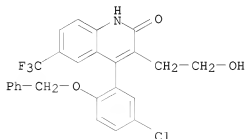
CN 2(1H)-Quinolinone, 3-(2-hydroxyethyl)-4-(2-hydroxyphenyl)-6-(trifluoromethyl)- (CA INDEX NAME)



IT 592479-28-2
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (selective removal of benzyl protecting group in presence of aryl chloride under gaseous and transfer hydrogenolysis conditions)

RN 592479-28-2 CAPLUS

CN 2(1H)-Quinolinone, 4-[5-chloro-2-(phenylmethoxy)phenyl]-3-(2-hydroxyethyl)-6-(trifluoromethyl)- (CA INDEX NAME)

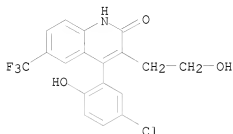


IT 275375-69-4P
 RL: SPN (Synthetic preparation); PREP (Preparation)

(selective removal of benzyl protecting group in presence of aryl chloride under gaseous and transfer hydrogenolysis conditions)

RN 275375-69-4 CAPLUS

CN 2(1H)-Quinolinone, 4-(5-chloro-2-hydroxyphenyl)-3-(2-hydroxyethyl)-6-(trifluoromethyl)- (CA INDEX NAME)



REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 70 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2003:269919 CAPLUS

DOCUMENT NUMBER: 139:164449

TITLE: A study of the relationship between the chemical structures and the fluorescence quantum yields of coumarins, quinoxalinones and benzoxazinones for the development of sensitive fluorescent derivatization reagents

AUTHOR(S): Azuma, Kentaro; Suzuki, Sachiko; Uchiyama, Seichi; Kajiro, Toshi; Santa, Tomofumi; Imai, Kazuhiro

CORPORATE SOURCE: Graduate School of Pharmaceutical Sciences, The University of Tokyo, Bunkyo-ku, Tokyo, 113-0033, Japan

SOURCE: Photochemical & Photobiological Sciences (2003), 2(4), 443-449

CODEN: PPSHCB; ISSN: 1474-905X

PUBLISHER: Royal Society of Chemistry

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 139:164449

AB To develop new fluorescent derivatization reagents, we investigated the relationship between the chemical structures and the fluorescence quantum yields (Φ_f) of coumarins, quinoxalinones and benzoxadinones.

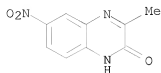
Forty-six compds. were synthesized and their fluorescence spectra were measured in n-hexane, Et acetate, methanol and water. The energy levels of these compds. were calculated by combination of the semi-empirical AM1 and INDO/S (CI = all) methods. The $\Delta E(Tn(n, \pi^*), S1(\pi, \pi^*))$ (the energy gap between the $Tn(n, \pi^*)$ and $S1(\pi, \pi^*)$ states) values were well correlated with the Φ_f values, which enables us to predict the Φ_f values from their chemical structures. Based on this relationship, 3-phenyl-7-N-piperazinoquinoxalin-2(1H)-one (PQ-Pz) and 7-(3-(S)-aminopyrrolidin-1-yl)-3-phenylquinoxalin-2-(1H)-one (PQ-APy) were developed as fluorescent derivatization reagents for carboxylic acids. The derivs. of the carboxylic acids with PQ-Pz and PQ-APy showed large Φ_f values even in polar solvents, suggesting that these reagents are suitable for the microanal. of biol. important carboxylic acids by reversed phase HPLC.

IT 19801-10-6

RL: PRP (Properties)

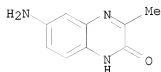
(relationship between chemical structures and fluorescence quantum yields of coumarins, quinoxalinones and benzoxazinones for development of sensitive fluorescent derivatization reagents)

RN 19801-10-6 CAPLUS
CN 2(1H)-Quinoxalinone, 3-methyl-6-nitro- (CA INDEX NAME)



IT 19801-05-9P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(relationship between chemical structures and fluorescence quantum yields
of coumarins, quinoxalinones and benzoxazinones for development of
sensitive fluorescent derivatization reagents)

RN 19801-05-9 CAPLUS
CN 2(1H)-Quinoxalinone, 6-amino-3-methyl- (CA INDEX NAME)



REFERENCE COUNT: 60 THERE ARE 60 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 71 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2003:261820 CAPLUS

DOCUMENT NUMBER: 138:287978

TITLE: Novel ligands for the HisB10 Zn²⁺ sites of the R-state
insulin hexamer

INVENTOR(S): Olsen, Helle Birk; Kaarsholm, Niels C.; Madsen, Peter;
Ostergaard, Soren; Ludvigsen, Svend; Jakobsen, Palle;
Petersen, Anders Klarskov; Steensgaard, Dorte Bjerre
PATENT ASSIGNEE(S): Novo Nordisk A/S, Den.; Novo Nordisk Health Care AG
SOURCE: PCT Int. Appl., 342 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2003027081	A2	20030403	WO 2002-DK595	20020913
WO 2003027081	A3	20040325		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
CA 2460541	A1	20030403	CA 2002-2460541	20020913
AU 2002340773	A1	20030407	AU 2002-340773	20020913

EP 1429763	A2	20040623	EP 2002-774468	20020913
EP 1429763	B1	20070530		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
BR 2002012522	A	20040810	BR 2002-12522	20020913
HU 2004001492	A2	20041129	HU 2004-1492	20020913
CN 1558762	A	20041229	CN 2002-820340	20020913
JP 2005508335	T	20050331	JP 2003-530671	20020913
AT 363278	T	20070615	AT 2002-774468	20020913
ES 2288195	T3	20080101	ES 2002-774468	20020913
US 20030229120	A1	20031211	US 2003-332541	20030514
ZA 2004001839	A	20050916	ZA 2004-1839	20040305
IN 2004CN00529	A	20051223	IN 2004-CN529	20040311
MX 2004PA02404	A	20040531	MX 2004-PA2404	20040312
NO 2004001494	A	20040413	NO 2004-1494	20040413
PRIORITY APPLN. INFO.:			DK 2001-1337	A 20010914
			US 2001-323925P	P 20010921
			DK 2002-1066	A 20020705
			US 2002-396051P	P 20020710
			WO 2002-DK595	W 20020913

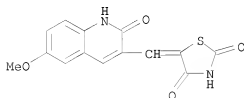
OTHER SOURCE(S): MARPAT 138:287978

AB Novel ligands for the HisB10 Zn²⁺ sites of the R-state insulin hexamer that are capable of prolonging the action of insulin preps. are disclosed. The ligands stabilize the hexamers and modify solubility in the neutral range, thus releasing insulin slowly following s.c. injection. Zinc-binding ligands A-B-C-D-X [A is a group which reversibly binds to a HisB10 Zn²⁺ site of an insulin hexamer; B is a linker selected from a valence bond or a chemical group GB of formula -B1-B2-CO-, -B1-B2-SO2-, -B1-B2-CH2-, or -B1-B2-NH-, where B1 is a valence bond, O, S, NH, or alkylimino and B2 is a valence bond, alk(en)(yn)ylene, (hetero)arylene, alkanediyl, etc.; C is a fragment consisting of 0-5 neutral amino acids; D is a fragment comprising 1 to 20 pos. charged groups selected from amino or guanidino groups; X is OH, NH2 or a diamino group], including pharmaceutically-acceptable salts, isomers or racemates, are claimed. Thus, benzotriazol-5-ylcarbonyl-Gly2-Arg5-NH2 (BT-G2R5) was prepared and its effect on the pH-solubility profile of an insulin preparation is shown graphically.

IT 503827-44-9P 503827-49-4P
 RL: BCP (Biochemical process); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); PROC (Process)
 (novel ligands for histidine-B10 zinc(II) sites of R-state insulin hexamer)

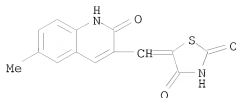
RN 503827-44-9 CAPLUS

CN 2,4-Thiazolidinedione, 5-[(1,2-dihydro-6-methoxy-2-oxo-3-quinolinyl)methylene]- (CA INDEX NAME)

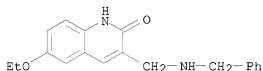


RN 503827-49-4 CAPLUS

CN 2,4-Thiazolidinedione, 5-[(1,2-dihydro-6-methyl-2-oxo-3-quinolinyl)methylene]- (CA INDEX NAME)



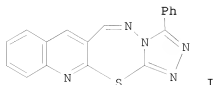
L28 ANSWER 72 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2003:151405 CAPLUS
 DOCUMENT NUMBER: 138:368869
 TITLE: Synthesis of substituted 4,5-dihydro[1,4]oxazepino-[7,6-b]quinolin-3-ones
 AUTHOR(S): Kombarov, R. V.; Yurovskaya, M. A.
 CORPORATE SOURCE: M. V. Lomonosov Moscow State University, Moscow, 119899, Russia
 SOURCE: Chemistry of Heterocyclic Compounds (New York, NY, United States)(Translation of Khimiya Geterotsiklicheskikh Soedinenii) (2002), 38(9), 1154-1155
 CODEN: CHCCAL; ISSN: 0009-3122
 PUBLISHER: Kluwer Academic/Consultants Bureau
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 138:368869
 AB Title compds. were prepared by N-chloroacetylation of 3-aminomethyl-2-quinolones followed by cyclization with KOH. For example, 4-benzyl-8-ethoxy-4,5-dihydro[1,4]oxazepino-[7,6-b]quinolin-3-one was prepared in 68% yield from 3-(N-benzylaminomethyl)-6-ethoxy-2-quinolone.
 IT 483290-88-6
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (synthesis of substituted dihydrooxazepinoquinolinones)
 RN 483290-88-6 CAPLUS
 CN 2(1H)-Quinolinone, 6-ethoxy-3-[[(phenylmethyl)amino]methyl]- (CA INDEX NAME)



REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 73 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2003:79360 CAPLUS
 DOCUMENT NUMBER: 139:6851
 TITLE: One pot reaction: synthesis, characterization and biological activity of 3-alkyl/aryl-9-substituted 1,2,4-triazolo[3,4-b] [1,3,4]quinolino thiadiazepines
 AUTHOR(S): Kalluraya, Balakrishna; Gururaja, R.; Rai, Ganesha
 CORPORATE SOURCE: Department of Studies in Chemistry, Mangalore University, Mangalagangothri, 574 199, India
 SOURCE: Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (2003), 42B(1), 211-214

PUBLISHER: CODEN: IJSBDB; ISSN: 0376-4699
 DOCUMENT TYPE: National Institute of Science Communication
 LANGUAGE: Journal
 OTHER SOURCE(S): English
 GI CASREACT 139:6851

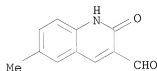


AB Reaction of 6-substituted-2-chloro-3-formylquinoline and 3-substituted-4-amino-5-mercapto-1,2,4-triazole (I) gave the novel thiadiazepine derivs. II (R1 = H, Me, OMe; R2 = Me, Pr, Ph, p-ClC6H4) rather than expected Schiff bases. Alternatively, compds. II were also prepared by the reaction of I with 6-substituted quinolones. The structures of the newly synthesized compds. were proposed on the basis of elemental anal., IR, ¹H NMR and mass spectral data. Some of the new synthetic compds. were also screened for their antibacterial and antifungal activity. Most of them showed significant activity.

IT 101382-53-0P 123990-78-3P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and biol. activity of 3-alkyl-/aryl-9-substituted 1,2,4-triazolo[3,4-b][1,3,4]quinolino thiadiazepines from 2-chloro-/hydroxy-3-formylquinolines and 3-substituted-4-amino-5-mercapto-1,2,4-triazoles)

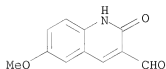
RN 101382-53-0 CAPLUS

CN 3-Quinolinecarboxaldehyde, 1,2-dihydro-6-methyl-2-oxo- (CA INDEX NAME)



RN 123990-78-3 CAPLUS

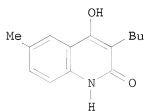
CN 3-Quinolinecarboxaldehyde, 1,2-dihydro-6-methoxy-2-oxo- (CA INDEX NAME)



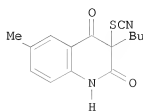
REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 74 OF 231 CAPLUS COPYRIGHT 2008 ACS on SIN
 ACCESSION NUMBER: 2003:61769 CAPLUS
 DOCUMENT NUMBER: 138:368739
 TITLE: Synthesis of 3-thiocyanato-1H,3H-quinoline-2,4-diones

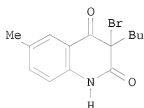
AUTHOR(S): Klasek, Antonin; Polis, Jiri; Mrkvicka, Vladimir;
Kosmrlj, Janez
CORPORATE SOURCE: Department of Chemistry and Environmental Technology,
Faculty of Technology, Tomas Bata University, Zlin,
762 72, Czech Rep.
SOURCE: Journal of Heterocyclic Chemistry (2002), 39(6),
1315-1320
CODEN: JHTCAD; ISSN: 0022-152X
PUBLISHER: HeteroCorporation
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 138:368739
GI



I



II



III

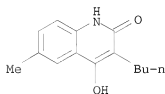
AB 4-Hydroxy-1H-quinolin-2-ones, e.g. I, react with thiocyanogen in acetic acid to produce the corresponding 3-thiocyanato-1H,3H-quinoline-2,4-diones, e.g. II, in good yields. In some cases, 3-bromo-1H,3H-quinoline-2,4-diones, e.g. III, were isolated as minor reaction products. Compds. such as II are very reactive towards nucleophiles and easily hydrolyze to the corresponding 4-hydroxy-1H-quinoline-2-ones.

IT 266348-50-9

RL: RCT (Reactant); RACT (Reactant or reagent)
(synthesis of 3-thiocyanato-1H,3H-quinoline-2,4-diones)

RN 266348-50-9 CAPLUS

CN 2(1H)-Quinolinone, 3-butyl-4-hydroxy-6-methyl- (CA INDEX NAME)

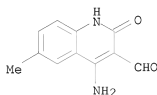


REFERENCE COUNT: 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

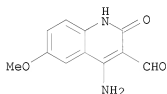
L28 ANSWER 75 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2002:939671 CAPLUS

DOCUMENT NUMBER: 138:287551
 TITLE: A convenient synthesis of benzo[h]cyclopenta[b][1,6]naphthyridin-6(5H)-ones
 AUTHOR(S): Prakash, G. Arul; Rajendran, S. P.
 CORPORATE SOURCE: Department of Chemistry, Bharathiar University, Coimbatore, 641 046, India
 SOURCE: Asian Journal of Chemistry (2003), 15(1), 500-502
 CODEN: AJCHEW; ISSN: 0970-7077
 PUBLISHER: Asian Journal of Chemistry
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 138:287551
 AB Substituted benzo[h]cyclopenta[b][1,6]naphthyridin-6(5H)-ones were synthesized by the condensation of 4-amino-3-formylquinoline-2(1H)-ones with cyclopentanone in the presence of HOAc and H2SO4.
 IT 419566-60-2 419566-62-4
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (preparation of benzo[h]cyclopenta[b][1,6]naphthyridin-6(5H)-ones from cyclocondensation of amino(formyl)quinolinones with cyclopentanone)
 RN 419566-60-2 CAPLUS
 CN 3-Quinolinedicarboxaldehyde, 4-amino-1,2-dihydro-6-methyl-2-oxo- (CA INDEX NAME)



RN 419566-62-4 CAPLUS
 CN 3-Quinolinedicarboxaldehyde, 4-amino-1,2-dihydro-6-methoxy-2-oxo- (CA INDEX NAME)



REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

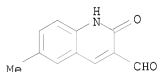
L28 ANSWER 76 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2002:939547 CAPLUS
 DOCUMENT NUMBER: 138:321159
 TITLE: Synthesis of derivatives of 3-phenyl-2H-pyrano[2,3-b]quinoline-2-ones and comparison of their biological activities
 AUTHOR(S): Kumar, N. Venkatesh; Rajendran, S. P.
 CORPORATE SOURCE: Department of Chemistry, Bharathiar University, Coimbatore, 641 046, India
 SOURCE: Asian Journal of Chemistry (2003), 15(1), 111-116
 CODEN: AJCHEW; ISSN: 0970-7077
 PUBLISHER: Asian Journal of Chemistry

DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 138:321159

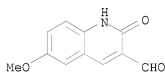
AB Synthesis of a series of title compds. including several hitherto unknown derivs. of 3-phenyl-2H-pyrano[2,3-b]quinolin-2-ones is reported by the Perkin type reaction of 3-formyl-2-quinolones with sodium salt of phenylacetic acid. The 3-formyl-2-quinolones in turn were obtained from 2-chloro-3-formylquinolines. Structures of all the products have been established by spectral and elemental anal. data. Biocidal activities have been tested in vitro.

IT 101382-53-0, 1,2-Dihydro-6-methyl-2-oxo-3-Quinolinecarboxaldehyde
 123990-78-3, 1,2-Dihydro-6-methoxy-2-oxo-3-Quinolinecarboxaldehyde
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (preparation of (phenyl)pyranoquinolinone derivs. and their biol. activities)

RN 101382-53-0 CAPLUS
 CN 3-Quinolinecarboxaldehyde, 1,2-dihydro-6-methyl-2-oxo- (CA INDEX NAME)



RN 123990-78-3 CAPLUS
 CN 3-Quinolinecarboxaldehyde, 1,2-dihydro-6-methoxy-2-oxo- (CA INDEX NAME)

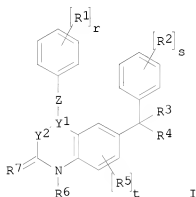


REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 77 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2002:504781 CAPLUS
 DOCUMENT NUMBER: 137:78964
 TITLE: Preparation of farnesyl transferase inhibiting 4-substituted quinolines and quinazolines
 INVENTOR(S): Angibaud, Patrick Rene; Venet, Marc Gaston
 PATENT ASSIGNEE(S): Janssen Pharmaceutica N.V., Belg.
 SOURCE: PCT Int. Appl., 67 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002051835	A1	20020704	WO 2001-EP15234	20011221
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ,				

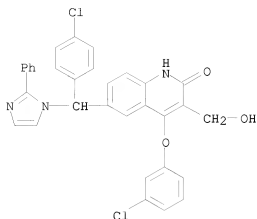
UA, UG, US, UZ, VN, YU, ZA, ZM, ZW
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,
 CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,
 BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
 AU 2002240867 A1 20020708 AU 2002-240867 20011221
 EP 1347966 A1 20031001 EP 2001-988065 20011221
 EP 1347966 B1 20060308
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
 JP 2004516323 T 20040603 JP 2002-552930 20011221
 AT 319704 T 20060315 AT 2001-988065 20011221
 ES 2260316 T3 20061101 ES 2001-988065 20011221
 US 20040063944 A1 20040401 US 2003-451902 20030626
 US 7129356 B2 20061031
 PRIORITY APPLN. INFO.: EP 2000-204715 A 20001227
 WO 2001-EP15234 W 20011221
 OTHER SOURCE(S): MARPAT 137:78964
 GI



AB The title compds. [I; r, s = 0-5; t = 0-3; Y1Y2 = C:N, C:CR9, CHNR9, CHCHRR9 (wherein R9 = H, halo, CN, etc.); Z = O, S, SO, etc.; R1, R2 = N3, OH, halo, etc.; R3 = H, halo, CN, etc.; R4 = (un)substituted imidazolyl, triazolyl, pyridyl; R5 = CN, OH, halo, etc.; R6 = H, alkyl, cyanoalkyl, etc.; R7 = O, S; or R6 and R7 together form CONHN, N:NN, etc.] having farnesyl transferase inhibiting activity (no biol. data), were prepared and formulated. E.g., a multi-step synthesis of I [r = 0; s = 1; t = 0; Y1Y2 = C:CH; Z = O; R2 = 4-Cl; R3 = H; R4 = 1-imidazolyl; R6 = H; R7 = O] was given.

IT 439906-20-4P
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of farnesyl transferase inhibiting 4-substituted quinolines and quinazolines)

RN 439906-20-4 CAPLUS
 CN 2(1H)-Quinolinone, 4-(3-chlorophenoxy)-6-[(4-chlorophenyl)(2-phenyl-1H-imidazol-1-yl)methyl]-3-(hydroxymethyl)- (CA INDEX NAME)



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 78 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2002:275968 CAPLUS

DOCUMENT NUMBER: 136:309857

TITLE: Preparation of quinolines and quinolinones as
metabotropic glutamate receptor antagonists
INVENTOR(S): Mabire, Dominique Jean-Pierre; Venet, Marc Gaston;
Coupa, Sophie; Poncelet, Alain Philippe; Lesage, Anne
Simone Josephine

PATENT ASSIGNEE(S): Janssen Pharmaceutica N.V., Belg.

SOURCE: PCT Int. Appl., 114 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

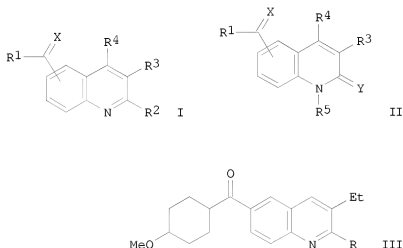
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002028837	A1	20020411	WO 2001-EP11135	20010925
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG			
CA 2421782	A1	20020411	CA 2001-2421782	20010925
AU 2001093847	A	20020415	AU 2001-93847	20010925
BR 2001014253	A	20030701	BR 2001-14253	20010925
EP 1332133	A1	20030806	EP 2001-974298	20010925
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
HU 2003002167	A2	20031028	HU 2003-2167	20010925
JP 2004510764	T	20040408	JP 2002-532423	20010925
NZ 524945	A	20050128	NZ 2001-524945	20010925
EE 200300126	A	20050415	EE 2003-126	20010925
CN 1703403	A	20051130	CN 2001-816717	20010925
AU 2001293847	B2	20070524	AU 2001-293847	20010925
KR 818965	B1	20080404	KR 2003-702014	20030211

HR 2003000229	A1	20030630	HR 2003-229	20030324
IN 2003MN00328	A	20050211	IN 2003-MN328	20030324
BG 107672	A	20040130	BG 2003-107672	20030326
ZA 2003002515	A	20040630	ZA 2003-2515	20030331
NO 2003001474	A	20030505	NO 2003-1474	20030401
NO 325079	B1	20080128		
MX 2003PA02907	A	20030624	MX 2003-PA2907	20030401
US 20040082592	A1	20040429	US 2003-381987	20030814
US 7115630	B2	20061003		
US 20050209273	A1	20050922	US 2005-133678	20050520
PRIORITY APPLN. INFO.:			EP 2000-203419	A 20001002
			WO 2001-EP11135	W 20010925
			US 2003-381987	A3 20030814

OTHER SOURCE(S): MARPAT 136:309857
GI



AB The title comps. [I or II; X = O, C(R6)2; (wherein R6 = H, aryl, alkyl, etc.); R1 = alkyl, aryl, thienyl, etc.; R2 = H, halo, CN, etc.; R3, R4 = H, alkyl; or R2 and R3 may be taken together to form (CH2)3, (CH2)4, CH:CHCH:CH, etc.; or R3 and R4 may be taken together to form CH:CHCH:CH, (CH2)4; R5 = H, cycloalkyl, piperidinyl, etc.; Y = O, S; or Y and R5 may be taken together to form CH:NN, N:NN, NCH:CH], useful for treating or preventing glutamate-induced diseases of the central nervous system, were prepared. Thus, reacting cis-III [R = Cl] with SnMe4 in the presence of Pg(PPh3)4 in PhMe afforded 17% cis-III [R = Me] which showed antagonism at a dose of 2.5 mg/kg bodyweight in cold allodynia test in rats with a Bennett ligation.

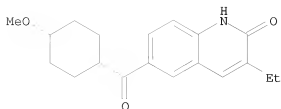
IT 409340-70-1P

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(preparation of quinolines and quinolinones as metabotropic glutamate receptor antagonists)

RN 409340-70-1 CAPLUS

CN 2(1H)-Quinolinone, 3-ethyl-6-[(cis-4-methoxycyclohexyl)carbonyl]- (CA INDEX NAME)

Relative stereochemistry.



IT 409340-69-8P 409340-98-3P 409341-14-6P
 409344-31-6P 409344-32-7P 409344-33-8P
 409344-34-9P 409344-35-0P 409344-36-1P
 409344-37-2P 409344-38-3P 409344-39-4P
 409344-41-8P 409344-42-9P 409344-43-0P
 409344-44-1P 409344-45-2P 409344-47-4P
 409344-48-5P 409344-50-9P 409344-52-1P
 409344-54-3P 409344-56-5P 409344-58-7P
 409344-60-1P 409344-62-3P 409344-64-5P
 409344-66-7P 409344-68-9P 409344-70-3P
 409344-72-5P 409344-79-2P 409344-81-6P
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 409344-91-8P 409345-13-7P 409345-14-8P

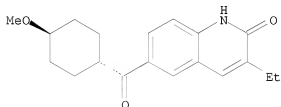
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of quinolines and quinolinones as metabotropic glutamate receptor antagonists)

RN 409340-69-8 CAPLUS

CN 2(1H)-Quinolinone, 3-ethyl-6-[(trans-4-methoxycyclohexyl)carbonyl]- (CA INDEX NAME)

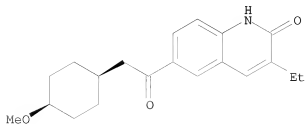
Relative stereochemistry.



RN 409340-98-3 CAPLUS

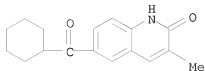
CN 2(1H)-Quinolinone, 3-ethyl-6-[(cis-4-methoxycyclohexyl)acetyl]- (9CI) (CA INDEX NAME)

Relative stereochemistry.



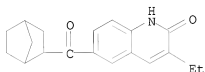
RN 409341-14-6 CAPLUS

CN 2(1H)-Quinolinone, 6-(cyclohexylcarbonyl)-3-methyl- (CA INDEX NAME)



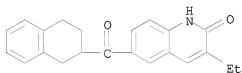
RN 409344-31-6 CAPLUS

CN 2(1H)-Quinolinone, 6-(bicyclo[2.2.1]hept-2-ylcarbonyl)-3-ethyl- (CA INDEX NAME)



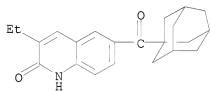
RN 409344-32-7 CAPLUS

CN 2(1H)-Quinolinone, 3-ethyl-6-[(1,2,3,4-tetrahydro-2-naphthalenyl)carbonyl]- (CA INDEX NAME)



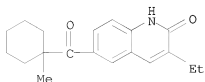
RN 409344-33-8 CAPLUS

CN 2(1H)-Quinolinone, 3-ethyl-6-(tricyclo[3.3.1.1^{3,7}]dec-1-ylcarbonyl)- (CA INDEX NAME)



RN 409344-34-9 CAPLUS

CN 2(1H)-Quinolinone, 3-ethyl-6-[(1-methylcyclohexyl)carbonyl]- (CA INDEX NAME)

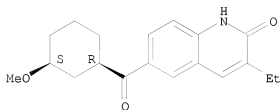


RN 409344-35-0 CAPLUS

CN 2(1H)-Quinolinone, 3-ethyl-6-[(1R,3S)-3-methoxycyclohexyl]carbonyl]-,

rel- (CA INDEX NAME)

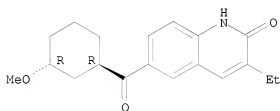
Relative stereochemistry.



RN 409344-36-1 CAPLUS

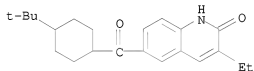
CN 2(1H)-Quinolinone, 3-ethyl-6-[(1R,3R)-3-methoxycyclohexyl]carbonyl-,
rel- (CA INDEX NAME)

Relative stereochemistry.



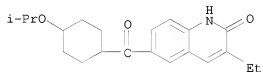
RN 409344-37-2 CAPLUS

CN 2(1H)-Quinolinone, 6-[[4-(1,1-dimethylethyl)cyclohexyl]carbonyl]-3-ethyl-
(CA INDEX NAME)



RN 409344-38-3 CAPLUS

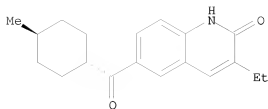
CN 2(1H)-Quinolinone, 3-ethyl-6-[[4-(1-methylethoxy)cyclohexyl]carbonyl]-
(CA INDEX NAME)



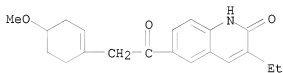
RN 409344-39-4 CAPLUS

CN 2(1H)-Quinolinone, 3-ethyl-6-[(trans-4-methylcyclohexyl)carbonyl]- (CA
INDEX NAME)

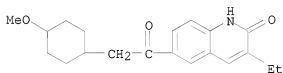
Relative stereochemistry.



RN 409344-41-8 CAPLUS
 CN 2(1H)-Quinolinone, 3-ethyl-6-[(4-methoxy-1-cyclohexen-1-yl)acetyl]- (9CI)
 (CA INDEX NAME)

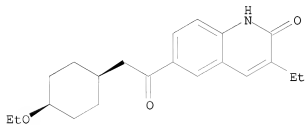


RN 409344-42-9 CAPLUS
 CN 2(1H)-Quinolinone, 3-ethyl-6-[(4-methoxycyclohexyl)acetyl]- (9CI) (CA
 INDEX NAME)



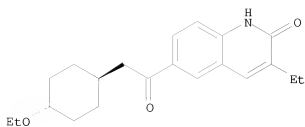
RN 409344-43-0 CAPLUS
 CN 2(1H)-Quinolinone, 6-[(cis-4-ethoxycyclohexyl)acetyl]-3-ethyl- (9CI) (CA
 INDEX NAME)

Relative stereochemistry.

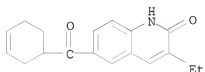


RN 409344-44-1 CAPLUS
 CN 2(1H)-Quinolinone, 6-[(trans-4-ethoxycyclohexyl)acetyl]-3-ethyl- (9CI)
 (CA INDEX NAME)

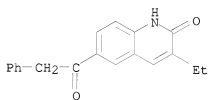
Relative stereochemistry.



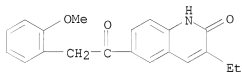
RN 409344-45-2 CAPLUS
CN 2(1H)-Quinolinone, 6-(3-cyclohexen-1-ylcarbonyl)-3-ethyl- (CA INDEX NAME)



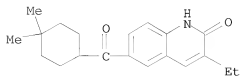
RN 409344-47-4 CAPLUS
CN 2(1H)-Quinolinone, 3-ethyl-6-(phenylacetyl)- (9CI) (CA INDEX NAME)



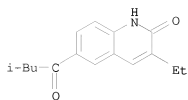
RN 409344-48-5 CAPLUS
CN 2(1H)-Quinolinone, 3-ethyl-6-[(2-methoxyphenyl)acetyl]- (9CI) (CA INDEX NAME)



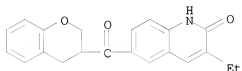
RN 409344-50-9 CAPLUS
CN 2(1H)-Quinolinone, 6-[(4,4-dimethylcyclohexyl)carbonyl]-3-ethyl- (CA INDEX NAME)



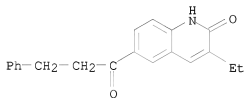
RN 409344-52-1 CAPLUS
CN 2(1H)-Quinolinone, 3-ethyl-6-(3-methyl-1-oxobutyl)- (CA INDEX NAME)



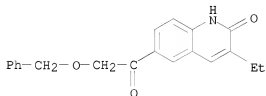
RN 409344-54-3 CAPLUS
 CN 2(1H)-Quinolinsonone, 6-[(3,4-dihydro-2H-1-benzopyran-3-yl)carbonyl]-3-ethyl-
 (CA INDEX NAME)



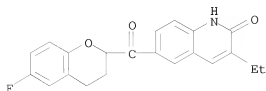
RN 409344-56-5 CAPLUS
 CN 2(1H)-Quinolinsonone, 3-ethyl-6-(1-oxo-3-phenylpropyl)- (CA INDEX NAME)



RN 409344-58-7 CAPLUS
 CN 2(1H)-Quinolinsonone, 3-ethyl-6-[(phenylmethoxy)acetyl]- (9CI) (CA INDEX NAME)



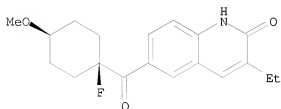
RN 409344-60-1 CAPLUS
 CN 2(1H)-Quinolinsonone, 3-ethyl-6-[(6-fluoro-3,4-dihydro-2H-1-benzopyran-2-yl)carbonyl]- (CA INDEX NAME)



RN 409344-62-3 CAPLUS

CN 2(1H)-Quinolinone, 3-ethyl-6-[(cis-1-fluoro-4-methoxycyclohexyl)carbonyl]-
(CA INDEX NAME)

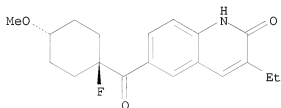
Relative stereochemistry.



RN 409344-64-5 CAPLUS

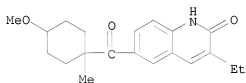
CN 2(1H)-Quinolinone, 3-ethyl-6-[(trans-1-fluoro-4-methoxycyclohexyl)carbonyl]- (CA INDEX NAME)

Relative stereochemistry.



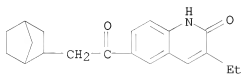
RN 409344-66-7 CAPLUS

CN 2(1H)-Quinolinone, 3-ethyl-6-[(4-methoxy-1-methylcyclohexyl)carbonyl]-
(CA INDEX NAME)



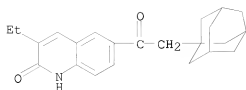
RN 409344-68-9 CAPLUS

CN 2(1H)-Quinolinone, 6-(bicyclo[2.2.1]hept-2-ylacetyl)-3-ethyl- (9CI) (CA INDEX NAME)



RN 409344-70-3 CAPLUS

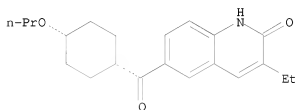
CN 2(1H)-Quinolinone, 3-ethyl-6-(tricyclo[3.3.1.1^{3,7}]dec-1-ylacetyl)- (9CI)
(CA INDEX NAME)



RN 409344-72-5 CAPLUS

CN 2 (1H)-Quinolinone, 3-ethyl-6-[(cis-4-propoxycyclohexyl)carbonyl]- (CA INDEX NAME)

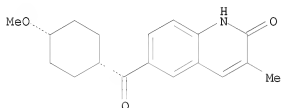
Relative stereochemistry.



RN 409344-79-2 CAPLUS

CN 2 (1H)-Quinolinone, 6-[(cis-4-methoxycyclohexyl)carbonyl]-3-methyl- (CA INDEX NAME)

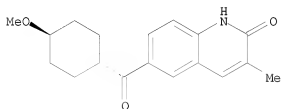
Relative stereochemistry.



RN 409344-81-6 CAPLUS

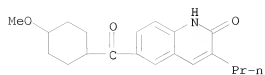
CN 2 (1H)-Quinolinone, 6-[(trans-4-methoxycyclohexyl)carbonyl]-3-methyl- (CA INDEX NAME)

Relative stereochemistry.



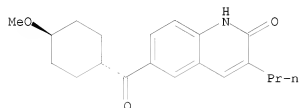
RN 409344-83-8 CAPLUS

CN 2 (1H)-Quinolinone, 6-[(4-methoxycyclohexyl)carbonyl]-3-propyl- (CA INDEX NAME)



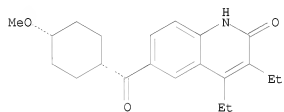
RN 409344-85-0 CAPLUS
 CN 2(1H)-Quinolinone, 6-[(trans-4-methoxycyclohexyl)carbonyl]-3-propyl- (CA INDEX NAME)

Relative stereochemistry.



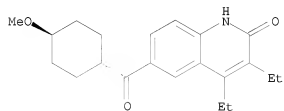
RN 409344-89-4 CAPLUS
 CN 2(1H)-Quinolinone, 3,4-diethyl-6-[(cis-4-methoxycyclohexyl)carbonyl]- (CA INDEX NAME)

Relative stereochemistry.

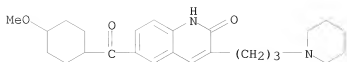


RN 409344-91-8 CAPLUS
 CN 2(1H)-Quinolinone, 3,4-diethyl-6-[(trans-4-methoxycyclohexyl)carbonyl]- (CA INDEX NAME)

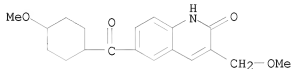
Relative stereochemistry.



RN 409345-13-7 CAPLUS
 CN 2(1H)-Quinolinone, 6-[(4-methoxycyclohexyl)carbonyl]-3-[3-(1-piperidinyl)propyl]- (CA INDEX NAME)



RN 409345-14-8 CAPLUS
 CN 2(1H)-Quinolinone, 6-[(4-methoxycyclohexyl)carbonyl]-3-(methoxymethyl)-
 (CA INDEX NAME)



REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 79 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2002:240764 CAPLUS

DOCUMENT NUMBER: 136:279472

TITLE: Preparation of 6-heterocyclylmethyl quinolinone derivatives as farnesyl transferase inhibitors for treatment of tumors and proliferative diseases

INVENTOR(S): Angibaud, Patrick Rene; Venet, Marc Gaston; Mevellec, Laurence Anne

PATENT ASSIGNEE(S): Janssen Pharmaceutica N.V., Belg.

SOURCE: PCT Int. Appl., 54 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

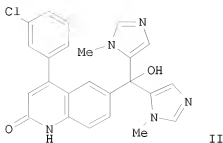
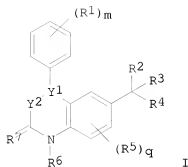
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002024687	A1	20020328	WO 2001-EP10975	20010918
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
AU 2001093835	A	20020402	AU 2001-93835	20010918
EP 1322644	A1	20030702	EP 2001-974284	20010918
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
JP 2004521863	T	20040722	JP 2002-529097	20010918
US 20030199547	A1	20031023	US 2003-381362	20030324
US 7067531	B2	20060627		

PRIORITY APPLN. INFO.: EP 2000-203368 A 20000925
 EP 2001-202189 A 20010607
 WO 2001-EP10975 W 20010918

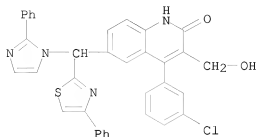
OTHER SOURCE(S): MARPAT 136:279472

GI



- AB Title compds. I [wherein m = independently 0-5; q = 0-3; Y1Y2 = C:CR9 or CHCHR9; C9 = H, halo, CN, (cyclo)alkyl, hydroxyalkyl, alkoxy(alkyl), aminoalkyl, (amino)alkenyl, (amino)alkynyl, halocarbonyl, hydroxycarbonyl, alkoxy(alkyl), aryl, (un)substituted amino or carbamoyl, etc.; R1 = azido, OH, halo, CN, NO2, trihalomethyl, alkoxy, aryloxy, heterocycloxy, alkylthio, or (un)substituted (cyclo)alkyl, alkenyl, alkynyl, carbamoyl, amino, sulfamoyl, etc.; or 2 adjacent R1 = OCH2O, OCH2CH2O, OCH:CH, OCH2CH2, OCH2CH2CH2, CH:CHCH:CH; R2 = (un)substituted mono- or bicyclic heterocyclic ring; R3 = H, halo, CN, alkenyl, alkynyl, hydroxycarbonyl, alkoxy(alkyl), aryl, heterocyclyl, alkoxy, alkylthio, (un)substituted (cyclo)alkyl or amino, etc.; R4 = (un)substituted imidazolyl, triazolyl, or pyridyl; R5 = CN, OH, halo, alkenyl, alkynyl, hydroxycarbonyl, alkoxy(alkyl), or (un)substituted (cyclo)alkyl, alkoxy, amino, or carbamoyl, etc.; R6 = halo or (un)substituted (cyclo)alkyl, alkenyl, alkynyl, alkylthio, carboxy, carbamoyl, acyl(amino), etc.; R7 = O or S; or R6R7 = (un)substituted CH:CHN:, CH:NN:, CONHN:, N:NN:, N:CHN:, CH:CHCH:, CH:NCH:, CONHCH:, N:NCH:, or CH2(CH2)0-1CH2N:; or pharmaceutically acceptable salts, N-oxides, or stereochem. isomeric forms thereof] were prepared For example, cyclization of N-[4-bromo-2-(3-chlorobenzoyl)phenyl]acetamide (3-step preparation given) using t-BuOH•K in DME afforded 6-bromo-4-(3-chlorophenyl)-2(1H)-quinoline (80.76%), which was then methoxylated (86%). Addition of bis(1-methyl-1H-imidazol-5-yl)methanone in the presence of BuLi in THF to give the α , α -bis(1-methyl-1H-imidazol-5-yl)-6-quinolinemethanol (5%), followed by reflux in HCl and THF overnight, produced 18 II•2HCl (quant.). I have potent farnesyl transferase inhibitory effect and are useful for inhibiting proliferative diseases and growth of tumors expressing an activated ras oncogene (no data).
- IT 406216-78-2P, 4-(3-Chlorophenyl)-3-(hydroxymethyl)-6-[(2-phenyl-1H-imidazol-1-yl)(4-phenyl-2-thiazolyl)methyl]-2(1H)-quinolinone ethanedioate RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(farnesyl transferase inhibitor; preparation of quinolinone derivs. as farnesyl transferase inhibitors for treatment of tumors and proliferative diseases)
- RN 406216-78-2 CAPLUS
- CN 2(1H)-Quinolinone, 4-(3-chlorophenyl)-3-(hydroxymethyl)-6-[(2-phenyl-1H-imidazol-1-yl)(4-phenyl-2-thiazolyl)methyl]-, ethanedioate (salt) (9CI)
(CA INDEX NAME)

CRN 406216-77-1
CMF C35 H25 Cl N4 O2 S

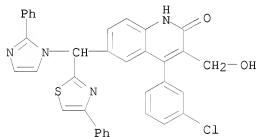


CM 2

CRN 144-62-7
CMF C2 H2 O4



IT 406216-77-1P, 4-(3-Chlorophenyl)-3-(hydroxymethyl)-6-[(2-phenyl-1H-imidazol-1-yl)(4-phenyl-2-thiazolyl)methyl]-2(1H)-quinolinone
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(intermediate; preparation of quinolinone derivs. as farnesyl transferase inhibitors for treatment of tumors and proliferative diseases)
RN 406216-77-1 CAPLUS
CN 2(1H)-Quinolinone, 4-(3-chlorophenyl)-3-(hydroxymethyl)-6-[(2-phenyl-1H-imidazol-1-yl)(4-phenyl-2-thiazolyl)methyl]- (CA INDEX NAME)



REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 80 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2002:29432 CAPLUS
DOCUMENT NUMBER: 136:340605
TITLE: A convenient synthesis of 8,9,10,11-tetrahydrodibenzo[b,h][1,6]naphthyridin-6(5H)ones
AUTHOR(S): Prakash, G. Arul; Rajendran, S. P.
CORPORATE SOURCE: Department of Chemistry, Bharathiar University, Coimbatore, 641 046, India

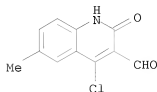
SOURCE: Heterocyclic Communications (2001), 7(4), 353-358
 CODEN: HCOMEX; ISSN: 0793-0283
 PUBLISHER: Freund Publishing House Ltd.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 136:340605

AB Substituted 8,9,10,11-tetrahydrodibenzo[b,h][1,6]naphthyridin-6(5H)ones have been synthesized by the condensation of 4-amino-3-formylquinolin-2(1H)ones (I) with cyclohexanone in presence of acetic acid and sulfuric acid. I were obtained by condensation of anilines with CH₂(COCl)₂, formylation, and partial hydrolysis of the dichloro analogs.

IT 156992-52-8P 419566-57-7P 419566-60-2P
 419566-62-4P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of 8,9,10,11-tetrahydrodibenzo[b,h][1,6]naphthyridin-6(5H)ones)

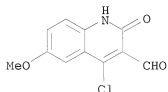
RN 156992-52-8 CAPLUS

CN 3-Quinolinedicarboxaldehyde, 4-chloro-1,2-dihydro-6-methyl-2-oxo- (CA INDEX NAME)



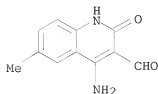
RN 419566-57-7 CAPLUS

CN 3-Quinolinedicarboxaldehyde, 4-chloro-1,2-dihydro-6-methoxy-2-oxo- (CA INDEX NAME)



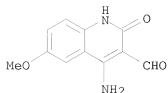
RN 419566-60-2 CAPLUS

CN 3-Quinolinedicarboxaldehyde, 4-amino-1,2-dihydro-6-methyl-2-oxo- (CA INDEX NAME)



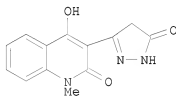
RN 419566-62-4 CAPLUS

CN 3-Quinolinedicarboxaldehyde, 4-amino-1,2-dihydro-6-methoxy-2-oxo- (CA INDEX NAME)

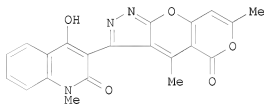


REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 81 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2001:730150 CAPLUS
 DOCUMENT NUMBER: 136:102322
 TITLE: Chemistry of substituted quinolinones. III. Synthesis and reactions of some novel 3-pyrazolyl-2-quinolinones
 AUTHOR(S): Abass, Mohamed; Othman, Elham S.
 CORPORATE SOURCE: Department of Chemistry, Faculty of Education, Ain Shams University, Cairo, 11711, Egypt
 SOURCE: Synthetic Communications (2001), 31(21), 3361-3376
 CODEN: SYNCAV; ISSN: 0039-7911
 PUBLISHER: Marcel Dekker, Inc.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 136:102322
 GI

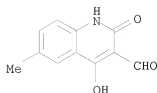


I



II

AB The preparation of 4-hydroxy-1-methyl-3-(5-oxo-4,5-dihydro-1H-3-pyrazolyl)-1,2-dihydro-2-quinolinone (I) and its hydrazono-, aminomethylidene- and arylidene derivs. has been achieved. The synthesis of fused heterocyclic polynuclear systems containing quinolinone moiety, e.g., II, is also described.
 IT 156992-48-2
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (preparation and reactions of 3-pyrazolyl-2-quinolinones)
 RN 156992-48-2 CAPLUS
 CN 3-Quinolinecarboxaldehyde, 1,2-dihydro-4-hydroxy-6-methyl-2-oxo- (CA INDEX NAME)

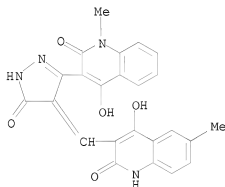


IT 329737-46-4P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and reactions of 3-pyrazolyl-2-quinolinones)

RN 329737-46-4 CAPLUS

CN 2(1H)-Quinolinone, 3-[4-[(1,2-dihydro-4-hydroxy-6-methyl-2-oxo-3-quinolinyl)methylene]-4,5-dihydro-5-oxo-1H-pyrazol-3-yl]-4-hydroxy-1-methyl- (CA INDEX NAME)



REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 82 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2001:472676 CAPLUS

DOCUMENT NUMBER: 135:61248

TITLE: Quinolone compounds for use in treating viral infections, particularly AIDS

INVENTOR(S): Andrews, Clarence Webster, III; Freeman, George
Andrew; Hopkins, Andrew Lee

PATENT ASSIGNEE(S): Glaxo Group Ltd., UK

SOURCE: PCT Int. Appl., 71 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

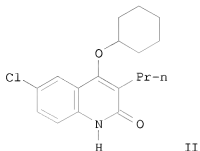
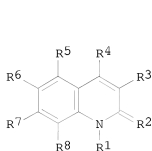
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.		KIND	DATE	APPLICATION NO.		DATE	
WO 2001046150		A2	20010628	WO 2000-US33930		20001215	
WO 2001046150		A3	20011129				
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TZ, UG, US, UZ, VN, YU, ZA, ZW						
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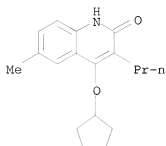
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 BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
 EP 1244629 A2 20021002 EP 2000-986390 20001215
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
 JP 2003518098 T 20030603 JP 2001-547061 20001215
 US 20030069271 A1 20030410 US 2002-168187 20020617
 PRIORITY APPLN. INFO.: GB 1999-30061 A 19991220
 WO 2000-US33930 W 20001215
 OTHER SOURCE(S): MARPAT 135:61248
 GI



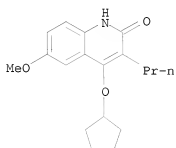
AB The invention relates to quinolone compds. I and their use in the treatment of viral infections [wherein: R1 = H; R2 = O or S; R3 = CF3, cyano, alkyl (un)substituted with alkyl or CF3, or OR15, wherein R15 = alkyl (un)substituted with alkyl; R4 = OR11, wherein R11 = alkenyl (un)substituted with alkyl, alkyl (un)substituted with alkyl, arylalkyl, cycloalkyl, cycloalkylalkyl, heterocyclealkyl, heterocyclealkynyl, cycloalkylalkenyl, arylalkynyl, cycloalkylalkynyl, SR12, wherein R12 = cycloalkyl, S(O)R12, wherein R12 = cycloalkyl, or NR13R14 wherein R13 and R14 = H or alkyl, (un)substituted with alkyl; R5 = H, NO2, halo, alkyl (un)substituted with alkyl or CF3; R6 = H, halo, alkyl, cyano, CF3, or OR10 wherein R10 = alkyl or CF3; R7 = H, alkyl, halo, aryl, alkylaryl, alkynyl, heteroaryl, or OR9 wherein R9 = alkyl; R8 = H, halo, cyano, NO2, or OR16, wherein R16 = H or alkyl (un)substituted with alkyl or CF3; provided that R6 and R7 cannot both be H; and further provided that when R1 = H, R2 = O, R3 = alkyl, R4 = OR11 wherein R11 = alkyl, R5 = H, R6 = H or OR10 wherein R10 = alkyl, R7 = H, alkyl, or OR9 wherein R9 = alkyl, then R8 cannot be H or OR16 wherein R16 = H or alkyl]. I are useful for treatment of viral infections, particularly retroviral infections, and especially HIV. Examples include 49 syntheses, activities of selected compds. against HIV in MT4 cells in vitro, and 18 formulations. For instance, 4-chloroaniline and di-Et propylmalonate were cyclocondensed by refluxing in Ph2O to give 84% 6-chloro-4-hydroxy-3-propyl-2(1H)-quinolinone. Etherification of this with cyclohexyl bromide, using K2CO3 and Et3N in DMF at 165°, gave title compound II in low yield (1%). In the aforementioned HIV assay, II and several other compds. had IC50 values in the highest range 0.005-0.1 µM.

IT 345912-96-1P 345912-97-2P 345912-98-3P 345912-99-4P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (drug candidate; preparation of quinolinones as antiviral drugs, particularly for treatment of AIDS)

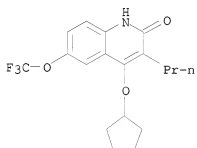
RN 345912-96-1 CAPLUS
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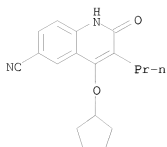
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RN 345912-98-3 CAPLUS
 CN 2(1H)-Quinolinone, 4-(cyclopentyloxy)-3-propyl-6-(trifluoromethoxy)- (CA INDEX NAME)



RN 345912-99-4 CAPLUS
 CN 6-Quinolinecarbonitrile, 4-(cyclopentyloxy)-1,2-dihydro-2-oxo-3-propyl- (CA INDEX NAME)

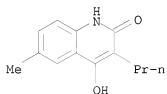


IT 345913-38-4P 345913-39-5P 345913-40-8P
345913-41-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(intermediate; preparation of quinolinones as antiviral drugs, particularly for treatment of AIDS)

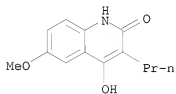
RN 345913-38-4 CAPLUS

CN 2(1H)-Quinolinone, 4-hydroxy-6-methyl-3-propyl- (CA INDEX NAME)



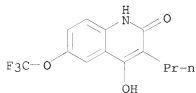
RN 345913-39-5 CAPLUS

CN 2(1H)-Quinolinone, 4-hydroxy-6-methoxy-3-propyl- (CA INDEX NAME)



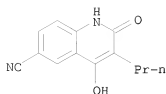
RN 345913-40-8 CAPLUS

CN 2(1H)-Quinolinone, 4-hydroxy-3-propyl-6-(trifluoromethoxy)- (CA INDEX
NAME)



RN 345913-41-9 CAPLUS

CN 6-Quinolinecarbonitrile, 1,2-dihydro-4-hydroxy-2-oxo-3-propyl- (CA INDEX NAME)



L28 ANSWER 83 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2001:416907 CAPLUS

DOCUMENT NUMBER: 135:33433

TITLE: Preparation of 3-substituted-4-arylquinolin-2-one derivatives as modulators of the large-conductance calcium-activated potassium (BK) channels
Crispino, Gerard; Wang, Shaopeng; Li, Jun
Bristol-Myers Squibb Company, USA
PCT Int. Appl., 25 pp.

CODEN: PIXXD2

Patent

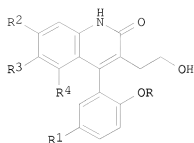
English

LANGUAGE: 1

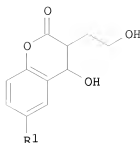
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

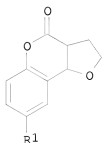
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001040191	A1	20010607	WO 2000-US32382	20001128
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RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
TW 562799	B	20031121	TW 2000-89125068	20001124
CA 2393012	A1	20010607	CA 2000-2393012	20001128
US 6353119	B1	20020305	US 2000-724056	20001128
EP 1233947	A1	20020828	EP 2000-983775	20001128
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
HU 2002003364	A2	20030228	HU 2002-3364	20001128
HU 2002003364	A3	20051128		
JP 2003515593	T	20030507	JP 2001-541876	20001128
AU 769481	B2	20040129	AU 2001-20487	20001128
IN 2002MN00600	A	20040228	IN 2002-MN600	20020510
MX 2002PA05470	A	20030128	MX 2002-PA5470	20020531
PRIORITY APPLN. INFO.:			US 1999-168346P	P 19991201
			WO 2000-US32382	W 20001128
OTHER SOURCE(S):		CASREACT 135:33433; MARPAT 135:33433		
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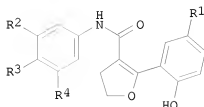
I



II



III



IV

AB The title compds. [I; R = H, Me; R1 = Br, Cl, NO2; R2-R4 = H, halo, NO2, CF3, provided R2-R4 are not all H] were prepared by condensing γ -butyrolactone with the Me ester of a substituted salicylic acid followed by cyclization of the resulting coumarin II with a catalytic amount of acid, treatment of the benzopyran-4-one III with a substituted aniline, and photochem. cyclization of the dihydrofuran IV.

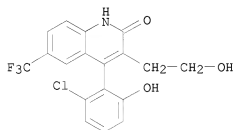
IT 343628-29-5P 343628-30-8P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of 3-substituted-4-arylquinolin-2-one derivs. as modulators of the large-conductance calcium-activated potassium (BK) channels)

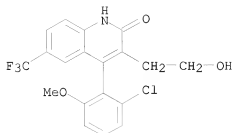
RN 343628-29-5 CAPLUS

CN 2(1H)-Quinolinone, 4-(2-chloro-6-hydroxyphenyl)-3-(2-hydroxyethyl)-6-(trifluoromethyl)- (CA INDEX NAME)



RN 343628-30-8 CAPLUS

CN 2(1H)-Quinolinone, 4-(2-chloro-6-methoxyphenyl)-3-(2-hydroxyethyl)-6-(trifluoromethyl)- (CA INDEX NAME)

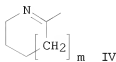
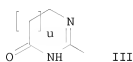
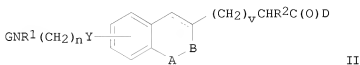
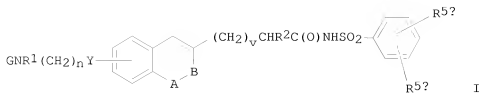


REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 84 OF 231 CAPLUS COPYRIGHT 2008 ACS on SIN
 ACCESSION NUMBER: 2001:78227 CAPLUS
 DOCUMENT NUMBER: 134:131078
 TITLE: Preparation of bicyclic antagonists selective for the $\alpha\beta 3$ integrin
 INVENTOR(S): Zask, Arie; Hauze, Diane Barbara; Kees, Kenneth Lewis; Coghlan, Richard Dale; Yardley, John
 PATENT ASSIGNEE(S): American Home Products Corporation, USA
 SOURCE: PCT Int. Appl., 256 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001007036	A1	20010201	WO 2000-US19885	20000720
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW				
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CA 2378860	A1	20010201	CA 2000-2378860	20000720
BR 2000012683	A1	20020416	BR 2000-12683	20000720
EP 1198231	A1	20020424	EP 2000-950508	20000720
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US 6429214	B1	20020806	US 2000-620381	20000720
JP 2003505416	T	20030212	JP 2001-511922	20000720
MX 2002PA00722	A	20020722	MX 2002-PA722	20020121
US 20030109523	A1	20030612	US 2002-163844	20020606
PRIORITY APPLN. INFO.:				
			US 1999-172238P	P 19990721
			US 1999-358035	A 19990721
			US 2000-620381	A3 20000720
			WO 2000-US19885	W 20000720

OTHER SOURCE(S): MARPAT 134:131078
 GI



AB This invention provides novel bicyclic compds. I and II (tetrahydro- and dihydroquinolines, tetrahydronaphthalenes and tetrahydro-6H-benzocycloheptenes) or pharmaceutically acceptable salts thereof that exhibit activity as inhibitors of bone resorption with minimal inhibition of platelet aggregation mediated by $\alpha\text{IIb}\beta_3$ integrin. An example is [6-(3-guanidinopropoxy)-1,2,3,4-tetrahydronaphthalen-2-yl]acetic acid-trifluoroacetate. Results are reported for some of the claimed compds. for vitronectin receptor ($\alpha\text{v}\beta_3$) binding, effect on integrin ($\alpha\text{v}\beta_3$)-mediated attachment of cells to osteopontin, osteoclast bone pitting, effects on PTH-induced hypercalcemia of thyro-parathyroidectomized male rats, effects on serum calcium in TPTX male rats treated with rPTH(1-34), and effect on ADP-induced platelet aggregation. In I and II, the dotted line represents the presence of an optional double bond. N = 2-5. V = 0, 1. A-B = diradical $-\text{CH}_2(\text{CH}_2)_m-$ or $-\text{NR}_5\text{C}(\text{O})-$. M = 1, 2. Y = $-\text{O}-$, $-\text{CH}_2\text{CH}_2-$, $-\text{CH}=\text{CH}-$, $-\text{C}.\text{tp}1\text{bond}.\text{C}-$, $-\text{NR}1\text{aC}(\text{O})-$. R1 = H or straight chain alkyl of 1-6 C atoms; phenylalkyl wherein the alkyl moiety is a straight chain alkyl of 1-6 C atoms and the Ph moiety is optionally substituted with one or more substituents which may be the same or different and are selected from hydroxy, amino, halogen, straight chain alkyl of 1-6 C atoms, branched chain alkyl of 3-7 C atoms, cyano, nitro, alkylamino of 1-6 C atoms, and dialkylamino of 1-6 C atoms; heterocycloalkyl, wherein the alkyl moiety is a straight chain alkyl of 1-6 C atoms and the heterocyclo moiety is selected from a 5- or 6-membered heterocyclic ring which contains 1-3 heteroatoms which may be the same or different, selected from N, O and S optionally substituted with ≥ 1 substituents which may be the same or different, and are selected from hydroxy, amino, halogen, straight chain alkyl of 1-6 C atoms, cyano and nitro. R1a = H or straight chain alkyl of 1-6 C atoms; phenylalkyl wherein the alkyl moiety is a straight chain alkyl of 1-6 C atoms and the Ph moiety is optionally substituted with ≥ 1 substituents which may be the same or different and are selected from hydroxy, amino, halogen, straight chain alkyl of 1-6 C atoms, branched chain alkyl of 3-7 C atoms, cyano, nitro, alkylamino of 1-6 C atoms, and dialkylamino of 1-6 C atoms. R2 = H, $-\text{NHR}1$, or $-\text{OR}1$, aryl of 6-12 C atoms optionally substituted with ≥ 1 substituents selected from straight chain alkyl of 1-6 C atoms, alkoxy of 1-6 C atoms, $-\text{S}-$ alkyl of 1-6 C atoms, cyano, nitro, halogen and phenyl; the heterocyclic moiety is selected from a 5- or 6-membered heterocyclic ring which contains 1-3 heteroatoms which may be the same or different, selected from N, O and S optionally substituted with ≥ 1 substituents which may be the same

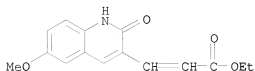
or different, and are selected from hydroxy, amino, halogen, straight chain alkyl of 1-6 C atoms, cyano and nitro; phenylalkyl wherein the alkyl moiety is a straight chain alkyl of 1-6 C atoms and the Ph moiety is optionally substituted with ≥ 1 substituents which may be the same or different and are selected from hydroxy, amino, halogen, straight chain alkyl of 1-6 C atoms, branched chain alkyl of 3-7 C atoms, cyano, nitro, alkylamino of 1-6 C atoms, and dialkylamino of 1-6 C atoms; heterocycloalkyl, wherein the alkyl moiety is a straight chain alkyl of 1-6 C atoms and the heterocyclic moiety is selected from a 5- or 6-membered heterocyclic ring which contains 1-3 heteroatoms which may be the same or different, selected from N, O and S optionally substituted with ≥ 1 substituents which may be the same or different, and are selected from hydroxy, amino, halogen, straight chain alkyl of 1-6 C atoms, cyano and nitro. G is a N-containing moiety selected from H2NC(:NH)-, R4C(O)NHC(:NC(O)R4)-, R1NHC(O)-, 2-pyrimidinyl, 1,4,5,6-tetrahydropyrimidin-2-yl, 6-amino-2-pyridinyl, 2-pyridinyl, 2-imidazolin-2-yl, 3-amino-1,2,4-triazol-5-yl, III and IV. U = 0, 1. R4 = straight chain alkyl of 1-6 C atoms, alkoxy or phenylalkyloxy wherein the alkyl moiety is a straight chain alkyl of 1-6 C atoms and the Ph moiety is optionally substituted with ≥ 1 substituents which may be the same or different and are selected from hydroxy, amino, halogen, straight chain alkyl of 1-6 C atoms, branched chain alkyl of 3-7 C atoms, cyano, nitro, alkylamino of 1-6 C atoms, and dialkylamino of 1-6 C atoms. R5 = H, straight chain alkyl of 1-6 C atoms, or phenylalkyl wherein the alkyl moiety is a straight chain alkyl of 1-6 C atoms and the Ph moiety is optionally substituted with ≥ 1 substituents which may be the same or different and are selected from hydroxy, amino, halogen, straight chain alkyl of 1-6 C atoms, branched chain alkyl of 3-7 C atoms, cyano, nitro, alkylamino of 1-6 C atoms, and dialkylamino of 1-6 C atoms. R5a = H, straight chain alkyl of 1-6 C atoms, or phenylalkyl wherein the alkyl moiety is a straight chain alkyl of 1-6 C atoms and the Ph moiety is optionally substituted with ≥ 1 substituents which may be the same or different and are selected from hydroxy, amino, halogen, straight chain alkyl of 1-6 C atoms, branched chain alkyl of 3-7 C atoms, cyano, nitro, alkylamino of 1-6 C atoms, and dialkylamino of 1-6 C atoms. R5b = H, straight chain alkyl of 1-6 C atoms, or phenylalkyl wherein the alkyl moiety is a straight chain alkyl of 1-6 C atoms and the Ph moiety is optionally substituted with ≥ 1 substituents which may be the same or different and are selected from hydroxy, amino, halogen, straight chain alkyl of 1-6 C atoms, branched chain alkyl of 3-7 C atoms, cyano, nitro, alkylamino of 1-6 C atoms, and dialkylamino of 1-6 C atoms. The optional double bond is a single bond when A-B is the diradical $-\text{CH}_2(\text{CH}_2)\text{m}-$. In II, D = OR3, NHSO2C6H3R5aR5b; R3 = H, straight chain alkyl of 1-6 C atoms optionally substituted with a group selected from amino, hydroxyl and carboxyl or branched chain alkyl of 3-7 C atoms optionally substituted with a group selected from amino, hydroxyl and carboxyl; certain combinations of values of variables are excluded as described in the claims. Pharmaceutical compns. containing the above compds. are claimed to be useful against mammalian bone resorption diseases selected from osteoporosis, hypercalcemia of malignancy, osteopenia due to bone metastases, periodontal disease, hyperparathyroidism, periarticular erosions in rheumatoid arthritis, Paget's disease, immobilization-induced osteopenia and the result of glucocorticoid treatment. Although the methods of preparation of the compds. are not claimed, >200 example preps. of products and intermediates are given.

321886-56-0P, 3-(6-Methoxy-2-oxo-1,2-dihydroquinolin-3-yl)acrylic acid ethyl ester 321886-84-4P, (6-Hydroxy-2-oxo-1,2-dihydroquinolin-3-yl)acetic acid ethyl ester

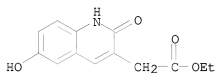
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(intermediate; preparation of bicyclic antagonists selective for $\alpha\text{v}\beta 3$ integrin)

RN 321886-56-0 CAPLUS
 CN 2-Propenoic acid, 3-(1,2-dihydro-6-methoxy-2-oxo-3-quinolinyl)-, ethyl ester (CA INDEX NAME)



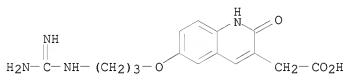
RN 321886-84-4 CAPLUS
 CN 3-Quinolineacetic acid, 1,2-dihydro-6-hydroxy-2-oxo-, ethyl ester (CA INDEX NAME)



IT 321886-86-6P, [6-(3-Guanidinopropoxy)-2-oxo-1,2-dihydroquinolin-3-yl]acetic acid trifluoroacetate 321886-88-8P, [6-(4-Guanidinobutoxy)-2-oxo-1,2-dihydroquinolin-3-yl]acetic acid trifluoroacetate
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of bicyclic antagonists selective for $\alpha\text{v}\beta 3$ integrin)
 RN 321886-86-6 CAPLUS
 CN 3-Quinolineacetic acid, 6-[3-[(aminoiminomethyl)amino]propoxy]-1,2-dihydro-2-oxo-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 321886-85-5
 CMF C15 H18 N4 O4



CM 2

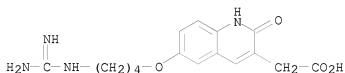
CRN 76-05-1
 CMF C2 H F3 O2



RN 321886-88-8 CAPLUS
 CN 3-Quinolineacetic acid, 6-[4-[(aminoiminomethyl)amino]butoxy]-1,2-dihydro-2-oxo-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 321886-87-7
 CMF C16 H20 N4 O4



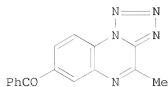
CM 2

CRN 76-05-1
 CMF C2 H F3 O2

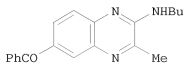


REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 85 OF 231 CAPLUS COPYRIGHT 2008 ACS on SIN
 ACCESSION NUMBER: 2000:527827 CAPLUS
 DOCUMENT NUMBER: 134:162992
 TITLE: Synthesis and antimicrobial activities of some novel quinoxalinone derivatives
 AUTHOR(S): Ali, M. M.; Ismail, M. M. F.; El-Gaby, M. S. A.; Zahran, M. A.; Ammar, Y. A.
 CORPORATE SOURCE: Dep. of Chemistry, Faculty of Science, Al-Azhar Univ., Cairo, 11884, Egypt
 SOURCE: Molecules [online computer file] (2000), 5(6), 864-873
 CODEN: MOLEFW; ISSN: 1420-3049
 URL: <http://www.mdpi.org/molecules/papers/50600864.pdf>
 PUBLISHER: Molecular Diversity Preservation International
 DOCUMENT TYPE: Journal; (online computer file)
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 134:162992
 GI



III



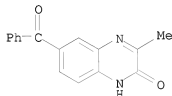
IV

AB Condensation of 4-benzoyl-1,2-phenylenediamine with sodium pyruvate in acetic acid furnished two products, which were identified as 6-benzoyl-(I) and 7-benzoyl-3-methyl-2(1H)-quinoxalinone (II). Fusion of I with aromatic aldehydes furnished the styryl derivs. Alkylation of I and II with di-Me sulfate or Et chloroacetate produced the N-alkyl derivs. Hydrazinolysis of one ester derivative with hydrazine hydrate afforded the hydrazide derivative, which underwent condensation with aldehydes to give the corresponding hydrazone derivs. In addition, chlorination of I with thionyl chloride afforded the 2-chloro derivative, which was subjected to reaction with sodium azide and n-butylamine to yield the corresponding tetrazolo (III) and n-butylamino (IV) derivs., resp. The structures of the compds. prepared were confirmed by anal. and spectral data. Also, some of the synthesized compds. were screened for antimicrobial activity.

IT 325469-51-0P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent) (preparation and antimicrobial activities of quinoxalinone derivs.)

RN 325469-51-0 CAPLUS

CN 2(1H)-Quinoxalinone, 6-benzoyl-3-methyl- (CA INDEX NAME)

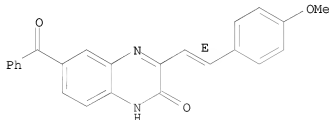


IT 325469-54-3P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation) (preparation and antimicrobial activities of quinoxalinone derivs.)

RN 325469-54-3 CAPLUS

CN 2(1H)-Quinoxalinone, 6-benzoyl-3-[(1E)-2-(4-methoxyphenyl)ethenyl]- (CA INDEX NAME)

Double bond geometry as shown.

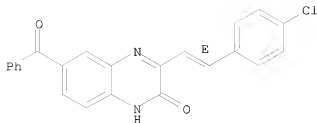


IT 325469-53-2P 325469-55-4P
 RL: SPN (Synthetic preparation); PREP (Preparation) (preparation and antimicrobial activities of quinoxalinone derivs.)

RN 325469-53-2 CAPLUS

CN 2(1H)-Quinoxalinone, 6-benzoyl-3-[(1E)-2-(4-chlorophenyl)ethenyl]- (CA INDEX NAME)

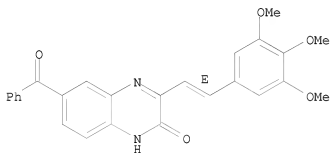
Double bond geometry as shown.



RN 325469-55-4 CAPLUS

CN 2(1H)-Quinoxalinone, 6-benzoyl-3-[(1E)-2-(3,4,5-trimethoxyphenyl)ethenyl]-
(CA INDEX NAME)

Double bond geometry as shown.



REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 86 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2000:429555 CAPLUS

DOCUMENT NUMBER: 133:222650

TITLE: Chemistry of substituted quinolinones. Part II.
Synthesis of novel 4-pyrazolylquinolinone derivatives
Abass, Mohamed

AUTHOR(S): Department of Chemistry, Faculty of Education, Ain
Shams University, Cairo, 11711, Egypt

SOURCE: Synthetic Communications (2000), 30(15), 2735-2757
CODEN: SYNCV; ISSN: 0039-7911

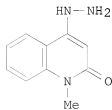
PUBLISHER: Marcel Dekker, Inc.

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 133:222650

GI

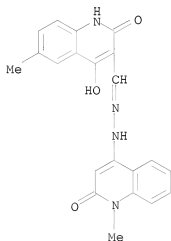


AB 4-Hydrazino-1-methyl-2(1H)quinolinone I was treated with chlorophthalazine, nitrous acid, isothiocyanates and isatines, and also utilized as a precursor for some new 4-pyrazolylquinolinones. Reaction of I with certain 2-acylquinolinones afforded quinolinylpyrazoloquinolinones and/or quinolinylpyrazolylquinolinones.

IT 291518-02-0P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)

RN 291518-02-0 CAPLUS

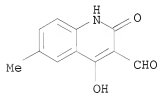
CN 3-Quinolinecarboxaldehyde, 1,2-dihydro-4-hydroxy-6-methyl-2-oxo-, 3-[(1,2-dihydro-1-methyl-2-oxo-4-quinolinyl)hydrazone] (9CI) (CA INDEX NAME)



IT 156992-48-2
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (reaction with hydrazinoquinolinone)

RN 156992-48-2 CAPLUS

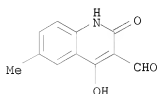
CN 3-Quinolinecarboxaldehyde, 1,2-dihydro-4-hydroxy-6-methyl-2-oxo- (CA INDEX NAME)



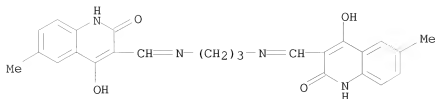
REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 87 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2000:414089 CAPLUS
 DOCUMENT NUMBER: 133:143953
 TITLE: ESR and spectroscopic studies of metal complexes of novel Schiff bases derived from 6-methyl-3-formyl-4-hydroxy-2-(1H)quinolone and 1,3-diaminopropane or N-(2-aminoethyl)-1,3-propanediamine, Part VI

AUTHOR(S): Khalil, Saied M. E.
 CORPORATE SOURCE: Department of Chemistry, Faculty of Education, Ain Shams University, Cairo, Egypt
 SOURCE: Journal of Coordination Chemistry (1999), 49(1), 45-61
 CODEN: JCCMBQ; ISSN: 0095-8972
 PUBLISHER: Gordon & Breach Science Publishers
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB Two novel dianionic tetradentate (N2O2) and pentadentate (N3O2) Schiff base ligands and their corresponding Cu(II), Ni(II), Co(II), Mn(II), VO(IV), Fe(III), UO2(VI), Th(IV), Zn(II) and Cd(II) complexes were prepared and characterized by elemental analyses, IR, visible and ESR spectra, magnetic susceptibility measurements as well as mass spectroscopy. Mononuclear and or dinuclear metal complexes were obtained. The Schiff base ligands were derived from 6-methyl-3-formyl-4-hydroxy-2-(1H)quinolone and 1,3-diaminopropane or N-(2-aminoethyl)-1,3-propanediamine. The Cu(II) complexes have either square-planar or octahedral geometries. The mononuclear Ni(II) complex shows anomalous behavior where both square-planar and octahedral geometries coexist, while its dinuclear complex has an octahedral geometry. Co(II) complexes were either mononuclear or dinuclear and showed five-coordinate trigonal bipyramidal and/or octahedral geometry. These structural geometries were confirmed by the results obtained from the thermal analyses. VO(IV) complexes were octahedral and polymeric. The mononuclear Mn(II) complex of the tetradentate ligand and the dinuclear Fe(III) complex of the pentadentate ligand were the only compds. obtained with these metals and showed octahedral geometry. The UO2(VI) and Cd(II) cations behaved similarly and coordinated to two tetradentate ligand mols. through their outer O-O coordinating sites, while they coordinated to only one mol. of the pentadentate ligand, through their N3O2 or N2O2 sites, resp. This reflects the effect of the cavity size of both ligands towards accommodating large cations. Th(IV) cations were coordinated to two bidentate nitrate anions, thus aiding the ligands to accommodate large cations in their cavities and raising their coordination sphere to either eight or nine. Small Zn(II) cations are well accommodated in the cavities of both ligands.
 IT 156992-48-2, 3-Formyl-4-hydroxy-6-methyl-2-(1H)quinolone
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (condensation with 1,3-diaminopropane or N-(2-aminoethyl)-1,3-propanediamine)
 RN 156992-48-2 CAPUS
 CN 3-Quinolonecarboxaldehyde, 1,2-dihydro-4-hydroxy-6-methyl-2-oxo- (CA INDEX NAME)



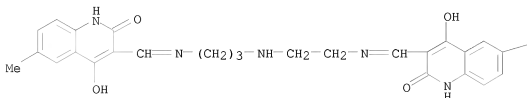
IT 286384-79-0 286384-96-1
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (preparation and complexation with transition metal ions)
 RN 286384-79-0 CAPUS
 CN 2(1H)-Quinolone, 3,3'-[1,3-propanediylbis(nitrilomethylidene)]bis[4-hydroxy-6-methyl- (9CI) (CA INDEX NAME)



RN 286384-96-1 CAPLUS

CN 2(1H)-Quinolinone, 3-[[[3-[[2-[[1,2-dihydro-4-hydroxy-6-methyl-2-oxo-3-quinolinyl)methylene]amino]ethyl]amino]propyl]imino]methyl]-4-hydroxy-6-methyl- (CA INDEX NAME)

PAGE 1-A



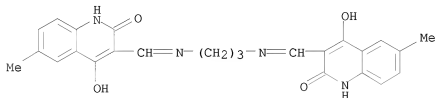
PAGE 1-B

Me

IT 286384-79-0DP, uranyl aqua or cadmium complexes
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(preparation, IR and UV-visible spectra)

RN 286384-79-0 CAPLUS

CN 2(1H)-Quinolinone, 3,3'-[1,3-propanediylbis(nitrilomethylidyne)]bis[4-hydroxy-6-methyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 88 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2000:401792 CAPLUS

DOCUMENT NUMBER: 133:43452

TITLE: Preparation of 3-substituted-4-arylquinolin-2-one derivatives as calcium-activated potassium (BK) channel openers

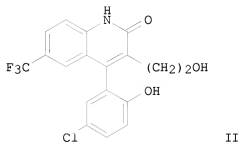
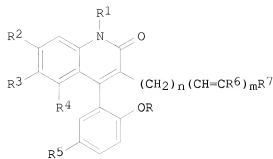
INVENTOR(S) : Hewawasam, Piyasena; Starrett, John E., Jr.

PATENT ASSIGNEE(S): Bristol-Myers Squibb Company, USA

SOURCE: PCT Int. Appl., 88 pp.

DOCUMENT TYPE: CODEN: PIXXD2
 LANGUAGE: Patent
 FAMILY ACC. NUM. COUNT: 1 English
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000034244	A1	20000615	WO 1999-US28428	19991201
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US 6184231	B1	20010206	US 1999-452523	19991201
BR 9915744	A	20010821	BR 1999-15744	19991201
EP 1133474	A1	20010919	EP 1999-960636	19991201
EP 1133474	B1	20070221		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, CY				
TR 200101339	T2	20020221	TR 2001-1339	19991201
JP 2002531549	T	20020924	JP 2000-586692	19991201
HU 2002001613	A2	20020928	HU 2002-1613	19991201
HU 2002001613	A3	20030328		
AU 755202	B2	20021205	AU 2000-17491	19991201
CN 1129582	B	20031203	CN 1999-813902	19991201
NZ 510987	A	20040227	NZ 1999-510987	19991201
RU 2240998	C2	20041127	RU 2001-115714	19991201
AT 354569	T	20070315	AT 1999-960636	19991201
ES 2281975	T3	20071001	ES 1999-960636	19991201
TW 495504	B	20020721	TW 1999-88121090	19991202
IN 2001MN00460	A	20050304	IN 2001-MN460	20010426
ZA 2001004455	A	20020530	ZA 2001-4455	20010530
NO 2001002739	A	20010601	NO 2001-2739	20010601
NO 318897	B1	20050518		
MX 2001PA05532	A	20011101	MX 2001-PA5532	20010601
PRIORITY APPLN. INFO.:			US 1998-111079P	P 19981204
			WO 1999-US28428	W 19991201
OTHER SOURCE(S):	MARPAT	133:43452		
GI				



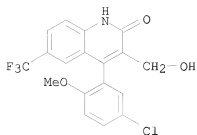
AB The title compds. (I) [wherein R and R1 = independently H or Me; R2, R3, and R4 = independently H, halogen, NO2, or CF3; R5 = Br, Cl, or NO2; R6 = H or F; R7 = Me, CRR10H, CHO, C:NOH, COMe, or (un)substituted aryl; m = 0-1; n = 0-6] were prepared by cyclization and further reaction of 1-[2-(acylamino)phenyl]-1-phenylmethanone derivs. For example, 4-(5-chloro-2-hydroxyphenyl)-3-(2-hydroxyethyl)-6-(trifluoromethyl)-2(1H)-quinoline (II) was synthesized in a 5-step sequence starting with acylation of 1-[2-amino-5-(trifluoromethyl)phenyl]-1'-(5-chloro-2-methoxyphenyl)methanone (preparation given) with 3-carbomethoxypropionyl chloride (82%). Subsequent cyclization (100%), dehydration (78%), demethylation (86%), and reduction of the acid yielded II. II activated the cloned BK channel mSlo expressed in *Xenopus* oocytes, increasing whole cell outward (K+) BK-mediated currents > 200% at 20 μ M. In an in vivo erectile function test on diabetic F-344 rats, II (0.1-1 mg/kg) significantly augmented intracavernous pressure/BP responses elicited by submaximal stimulation of the cavernous nerve. As BK channel openers, I are useful in the treatment of disorders which are responsive to the opening of the potassium channels, such as ischemia, stroke, convulsions, epilepsy, asthma, irritable bowel syndrome, migraine, traumatic brain injury, spinal cord injury, sexual dysfunction, and urinary incontinence.

IT 275375-51-4P 275375-53-6P 275375-54-7P
275375-56-9P 275375-59-2P 275375-62-7P
275375-69-4P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(preparation of 3-substituted-4-arylquinolin-2-one potassium channel openers by cyclization and further reaction of 1-[2-(acylamino)phenyl]-1-phenylmethanone derivs.)

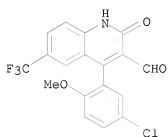
RN 275375-51-4 CAPIUS

CN 2(1H)-Quinolinone, 4-(5-chloro-2-methoxyphenyl)-3-(hydroxymethyl)-6-(trifluoromethyl)- (CA INDEX NAME)



RN 275375-53-6 CAPLUS

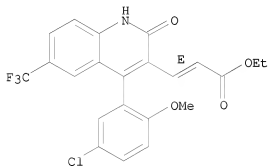
CN 3-Quinolinecarboxaldehyde, 4-(5-chloro-2-methoxyphenyl)-1,2-dihydro-2-oxo-6-(trifluoromethyl)- (CA INDEX NAME)



RN 275375-54-7 CAPLUS

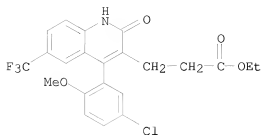
CN 2-Propenoic acid, 3-[4-(5-chloro-2-methoxyphenyl)-1,2-dihydro-2-oxo-6-(trifluoromethyl)-3-quinoliny]-, ethyl ester, (2E)- (CA INDEX NAME)

Double bond geometry as shown.



RN 275375-56-9 CAPLUS

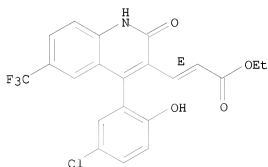
CN 3-Quinolinepropanoic acid, 4-(5-chloro-2-methoxyphenyl)-1,2-dihydro-2-oxo-6-(trifluoromethyl)-, ethyl ester (CA INDEX NAME)



RN 275375-59-2 CAPLUS

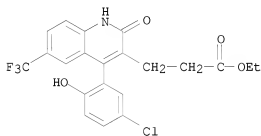
CN 2-Propenoic acid, 3-[4-(5-chloro-2-hydroxyphenyl)-1,2-dihydro-2-oxo-6-(trifluoromethyl)-3-quinolinyl]-, ethyl ester, (2E)- (CA INDEX NAME)

Double bond geometry as shown.



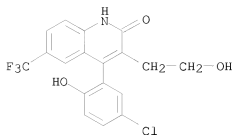
RN 275375-62-7 CAPLUS

CN 3-Quinolonepropanoic acid, 4-(5-chloro-2-hydroxyphenyl)-1,2-dihydro-2-oxo-6-(trifluoromethyl)-, ethyl ester (CA INDEX NAME)



RN 275375-69-4 CAPLUS

CN 2(1H)-Quinolone, 4-(5-chloro-2-hydroxyphenyl)-3-(2-hydroxyethyl)-6-(trifluoromethyl)- (CA INDEX NAME)



IT 275375-55-8P 275375-57-0P 275375-58-1P
 275375-60-5P 275375-61-6P 275375-63-8P
 275375-64-9P 275375-65-0P 275375-66-1P
 275375-67-2P 275375-68-3P 275375-70-7P
 275375-72-9P 275375-75-2P 275375-78-5P
 275375-81-0P 275375-82-1P 275375-83-2P
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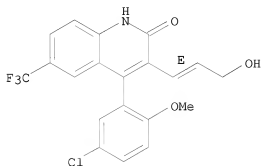
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of 3-substituted-4-arylquinolin-2-one potassium channel openers by cyclization and further reaction of 1-[2-(acylamino)phenyl]-1-phenylmethanone derivs.)

RN 275375-55-8 CAPLUS

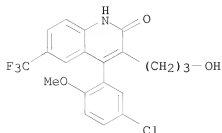
CN 2(1H)-Quinolinone, 4-(5-chloro-2-methoxyphenyl)-3-[(1E)-3-hydroxy-1-propenyl]-6-(trifluoromethyl)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



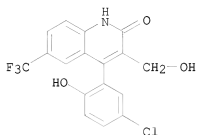
RN 275375-57-0 CAPLUS

CN 2(1H)-Quinolinone, 4-(5-chloro-2-methoxyphenyl)-3-(3-hydroxypropyl)-6-(trifluoromethyl)- (CA INDEX NAME)



RN 275375-58-1 CAPLUS

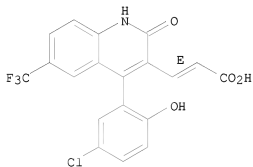
CN 2(1H)-Quinolinsonone, 4-(5-chloro-2-hydroxyphenyl)-3-(hydroxymethyl)-6-(trifluoromethyl)- (CA INDEX NAME)



RN 275375-60-5 CAPLUS

CN 2-Propenoic acid, 3-[4-(5-chloro-2-hydroxyphenyl)-1,2-dihydro-2-oxo-6-(trifluoromethyl)-3-quinolinyl]-, (2E)- (CA INDEX NAME)

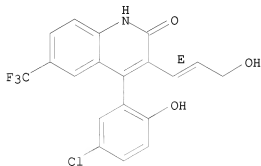
Double bond geometry as shown.



RN 275375-61-6 CAPLUS

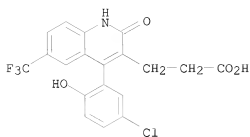
CN 3-(1H)-Quinolinsonone, 4-(5-chloro-2-hydroxyphenyl)-3-[(1E)-3-hydroxy-1-propenyl]-6-(trifluoromethyl)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



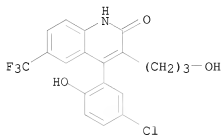
RN 275375-63-8 CAPLUS

CN 3-Quinolonepropanoic acid, 4-(5-chloro-2-hydroxyphenyl)-1,2-dihydro-2-oxo-6-(trifluoromethyl)- (CA INDEX NAME)



RN 275375-64-9 CAPLUS

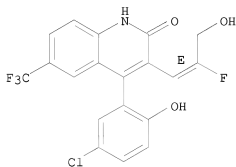
CN 2(1H)-Quinolinone, 4-(5-chloro-2-hydroxyphenyl)-3-(3-hydroxypropyl)-6-(trifluoromethyl)- (CA INDEX NAME)



RN 275375-65-0 CAPLUS

CN 2(1H)-Quinolinone, 4-(5-chloro-2-hydroxyphenyl)-3-[(1E)-2-fluoro-3-hydroxy-1-propenyl]-6-(trifluoromethyl)- (9CI) (CA INDEX NAME)

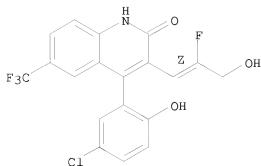
Double bond geometry as shown.



RN 275375-66-1 CAPLUS

CN 2(1H)-Quinolinone, 4-(5-chloro-2-hydroxyphenyl)-3-[(1Z)-2-fluoro-3-hydroxy-1-propenyl]-6-(trifluoromethyl)- (9CI) (CA INDEX NAME)

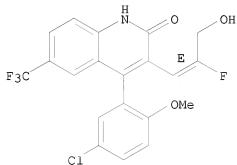
Double bond geometry as shown.



RN 275375-67-2 CAPLUS

CN 2(1H)-Quinolinone, 4-(5-chloro-2-methoxyphenyl)-3-[(1E)-2-fluoro-3-hydroxy-1-propenyl]-6-(trifluoromethyl)- (9CI) (CA INDEX NAME)

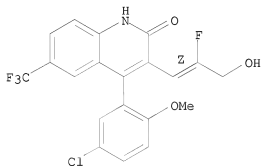
Double bond geometry as shown.



RN 275375-68-3 CAPLUS

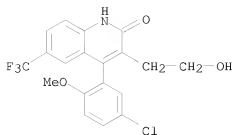
CN 2(1H)-Quinolinone, 4-(5-chloro-2-methoxyphenyl)-3-[(1Z)-2-fluoro-3-hydroxy-1-propenyl]-6-(trifluoromethyl)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

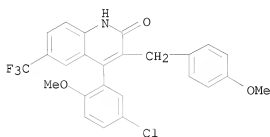


RN 275375-70-7 CAPLUS

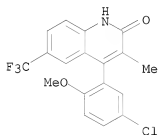
CN 2(1H)-Quinolinone, 4-(5-chloro-2-methoxyphenyl)-3-(2-hydroxyethyl)-6-(trifluoromethyl)- (CA INDEX NAME)



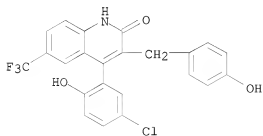
RN 275375-72-9 CAPLUS
 CN 2(1H)-Quinolinone, 4-(5-chloro-2-methoxyphenyl)-3-[(4-methoxyphenyl)methyl]-6-(trifluoromethyl)- (CA INDEX NAME)



RN 275375-75-2 CAPLUS
 CN 2(1H)-Quinolinone, 4-(5-chloro-2-methoxyphenyl)-3-methyl-6-(trifluoromethyl)- (CA INDEX NAME)

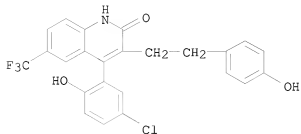


RN 275375-78-5 CAPLUS
 CN 2(1H)-Quinolinone, 4-(5-chloro-2-hydroxyphenyl)-3-[(4-hydroxyphenyl)methyl]-6-(trifluoromethyl)- (CA INDEX NAME)



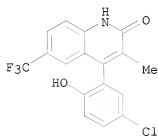
RN 275375-81-0 CAPLUS
 CN 2(1H)-Quinolinone, 4-(5-chloro-2-hydroxyphenyl)-3-[(4-hydroxyphenyl)methyl]-6-(trifluoromethyl)- (CA INDEX NAME)

hydroxyphenyl)ethyl]-6-(trifluoromethyl)- (CA INDEX NAME)



RN 275375-82-1 CAPLUS

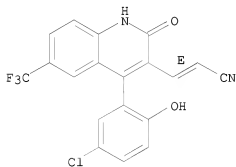
CN 2-(1H)-Quinolinone, 4-[5-chloro-2-hydroxyphenyl]-3-methyl-6-(trifluoromethyl)- (CA INDEX NAME)



RN 275375-83-2 CAPLUS

CN 2-Propenenitrile, 3-[4-(5-chloro-2-hydroxyphenyl)-1,2-dihydro-2-oxo-6-(trifluoromethyl)-3-quinoliny]-, (2E)- (CA INDEX NAME)

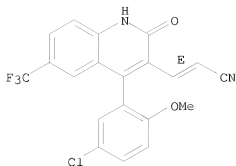
Double bond geometry as shown.



RN 275375-84-3 CAPLUS

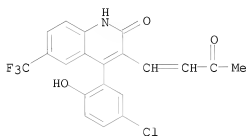
CN 2-Propenenitrile, 3-[4-(5-chloro-2-methoxyphenyl)-1,2-dihydro-2-oxo-6-(trifluoromethyl)-3-quinoliny]-, (2E)- (CA INDEX NAME)

Double bond geometry as shown.



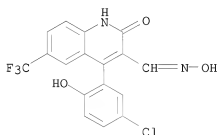
RN 275375-85-4 CAPLUS

CN 2(1H)-Quinolinone, 4-(5-chloro-2-hydroxyphenyl)-3-(3-oxo-1-butenyl)-6-(trifluoromethyl)- (9CI) (CA INDEX NAME)



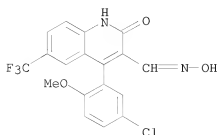
RN 275375-86-5 CAPLUS

CN 3-Quinolinecarboxaldehyde, 4-(5-chloro-2-hydroxyphenyl)-1,2-dihydro-2-oxo-6-(trifluoromethyl)-, 3-oxime (CA INDEX NAME)



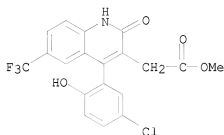
RN 275375-87-6 CAPLUS

CN 3-Quinolinecarboxaldehyde, 4-(5-chloro-2-methoxyphenyl)-1,2-dihydro-2-oxo-6-(trifluoromethyl)-, 3-oxime (CA INDEX NAME)



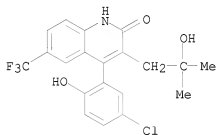
RN 275375-88-7 CAPLUS

CN 3-Quinolineacetic acid, 4-(5-chloro-2-hydroxyphenyl)-1,2-dihydro-2-oxo-6-(trifluoromethyl)-, methyl ester (CA INDEX NAME)



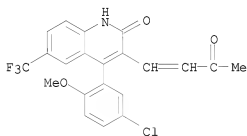
RN 275375-89-8 CAPLUS

CN 2(1H)-Quinolinone, 4-(5-chloro-2-hydroxyphenyl)-3-(2-hydroxy-2-methylpropyl)-6-(trifluoromethyl)- (CA INDEX NAME)



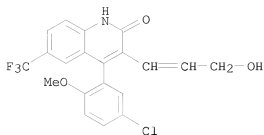
RN 275375-92-3 CAPLUS

CN 2(1H)-Quinolinone, 4-(5-chloro-2-methoxyphenyl)-3-(3-oxo-1-butenyl)-6-(trifluoromethyl)- (9CI) (CA INDEX NAME)



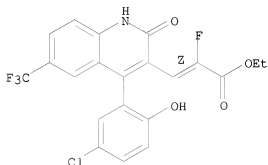
RN 275375-93-4 CAPLUS

CN 2(1H)-Quinolinone, 4-(5-chloro-2-methoxyphenyl)-3-(3-hydroxy-1-propenyl)-6-(trifluoromethyl)- (9CI) (CA INDEX NAME)

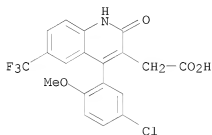


IT 275375-99-0P 275376-02-8P 275376-03-9P
 275376-05-1P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (preparation of 3-substituted-4-arylquinolin-2-one potassium channel openers
 by cyclization and further reaction of 1-[2-(acylamino)phenyl]-1-
 phenylmethanone derivs.)
 RN 275375-99-0 CAPLUS
 CN 2-Propenoic acid, 3-[4-(5-chloro-2-hydroxyphenyl)-1,2-dihydro-2-oxo-6-
 (trifluoromethyl)-3-quinolinyl]-2-fluoro-, ethyl ester, (2Z)- (CA INDEX
 NAME)

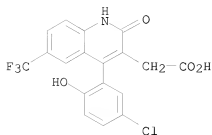
Double bond geometry as shown.



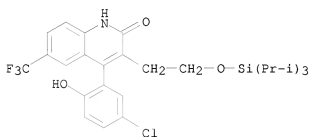
RN 275376-02-8 CAPLUS
 CN 3-Quinolineacetic acid, 4-(5-chloro-2-methoxyphenyl)-1,2-dihydro-2-oxo-6-
 (trifluoromethyl)- (CA INDEX NAME)



RN 275376-03-9 CAPLUS
 CN 3-Quinolineacetic acid, 4-(5-chloro-2-hydroxyphenyl)-1,2-dihydro-2-oxo-6-
 (trifluoromethyl)- (CA INDEX NAME)



RN 275376-05-1 CAPLUS
 CN 2(1H)-Quinolinone, 4-(5-chloro-2-hydroxyphenyl)-6-(trifluoromethyl)-3-[2-
 [[tris(1-methylethyl)silyloxy]ethyl]- (CA INDEX NAME)

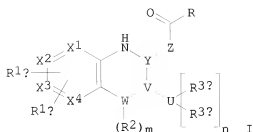


REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 89 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2000:376824 CAPLUS
 DOCUMENT NUMBER: 133:26858
 TITLE: Insulin secretion promoters and antidiabetic agents
 containing condensed pyrazine derivatives
 INVENTOR(S): Kamisaka, Noriaki; Raku, Naomi; Ueno, Kimihisa;
 Nomoto, Yuji; Takasaki, Kotaro; Suda, Miho; Kusaka,
 Hideaki; Yano, Hiroshi; Nakanishi, Satoshi; Matsuda,
 Yuzuru
 PATENT ASSIGNEE(S): Kyowa Hakko Kogyo Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 74 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000154139	A	20000606	JP 1999-259685	19990914
PRIORITY APPLN. INFO.: OTHER SOURCE(S):	MARPAT	133:26858	JP 1998-261592	A 19980916

GI

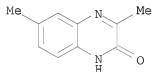


AB Insulin secretion promoters and antidiabetic agents contain the derivs. I
 [R1A, R1B = H, lower alkyl, lower alkoxy, lower alkanoyloxy, lower
 alkylthio, halo, NO2, lower alkanoyl, lower alkoxycarbonyl, NR4R5 [R4, R5
 = H, (un)substituted lower alkyl or NR4R5 = (un)substituted heterocyclyl],
 NHCOR6 [R6 = (un)substituted lower alkyl], CONR4aR5a (R4a, R5a = any group
 given for R4 and R5); R = H, (un)substituted alkyl, (un)substituted
 cycloalkyl, (un)substituted aryl, (un)substituted heterocyclyl; X1-X4 =
 CH, N; m, n = 0, 1; WVU = NC(:O), N:CN; if WVU = NC(:O) (automatically m =
 2 and n = 0), then YZ = CHCH2, C:CH, R2 = H, (un)substituted lower alkyl,
 (un)substituted cycloalkyl, (un)substituted lower alkenyl, (un)substituted
 alkynyl, (un)substituted aryl, (un)substituted aralkyl, (un)substituted
 heterocyclyl; if WVU = N:CN (automatically m = 0 and n = 1), then YZ =
 C:CH, R3A, R3B = H, (un)substituted lower alkyl, (un)substituted
 cycloalkyl, (un)substituted aryl, (un)substituted aralkyl, (un)substituted
 heterocyclyl, or NR3AR3B = (un)substituted heterocyclyl] or their
 pharmacol. acceptable salts as active ingredients. 1-Methyl-3-(2-
 oxophenethyl)-3,4-dihydro-1H-quinoxalin-2-one (prepared from
 1,2-phenylenediamine and Et 3-benzoylacrylate with 2 steps) suppressed
 increase in blood glucose after glucose loading to SD rats.

IT 28082-84-0 108833-49-4
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (preparation of condensed pyrazine compds. as insulin secretion promoters
 and antidiabetic drugs)

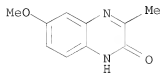
RN 28082-84-0 CAPLUS

CN 2(1H)-Quinoxalinone, 3,6-dimethyl- (CA INDEX NAME)



RN 108833-49-4 CAPLUS

CN 2(1H)-Quinoxalinone, 6-methoxy-3-methyl- (CA INDEX NAME)



TITLE: Synthesis of novel 3-acyloxy-1,3-dihydro-2H-indol-2-ones and isomeric 4-acyl-1,4-dihydro-3,1-benzoxazin-2-ones: double rearrangement of 3-hydroxyquinoline-2,4(1H,3H)-diones

AUTHOR(S): Klasek, Antonin; Koristek, Kamil; Polis, Jiri; Kosmrlj, Janez

CORPORATE SOURCE: Department of Chemistry and Environmental Technology, Faculty of Technology, Technical University of Brno, Zlin, 762 72, Czech Rep.

SOURCE: Tetrahedron (2000), 56(11), 1551-1560
CODEN: TETRAB; ISSN: 0040-4020

PUBLISHER: Elsevier Science Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English

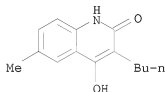
OTHER SOURCE(S): CASREACT 132:321837

AB Substituted 3-hydroxyquinoline-2,4(1H,3H)-diones were transformed into 3-acyloxy-1,3-dihydro-2H-indol-2-ones and isomeric 4-acyl-1,4-dihydro-3,1-benzoxazin-2-ones. The influence of the substituents and the reaction conditions on the course of the reaction was studied. In the proposed mechanism, a double rearrangement takes place; α -ketol rearrangement, leading to a α -hydroxy β -diketone intermediate, is followed by a rearrangement to the isomeric α -ketol esters.

IT 266348-50-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of hydroindolones and hydrobenzoxazinones by double rearrangement of hydroxyquinolinediones)

RN 266348-50-9 CAPLUS

CN 2(1H)-Quinolinone, 3-butyl-4-hydroxy-6-methyl- (CA INDEX NAME)



REFERENCE COUNT: 34 THERE ARE 34 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 91 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2000:125660 CAPLUS

DOCUMENT NUMBER: 132:279186

TITLE: Synthesis of quinoxaline derivatives bearing the styryl and phenylethynyl groups and application to a fluorescence derivatization reagent

AUTHOR(S): Katoh, Akira; Yoshida, Tohru; Ohkanda, Junko

CORPORATE SOURCE: Department of Industrial Chemistry, Faculty of Engineering, Seikei University, Musashino, 180-8633, Japan

SOURCE: Heterocycles (2000), 52(2), 911-920
CODEN: HETCYM; ISSN: 0385-5414

PUBLISHER: Japan Institute of Heterocyclic Chemistry

DOCUMENT TYPE: Journal

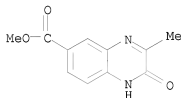
LANGUAGE: English

OTHER SOURCE(S): CASREACT 132:279186

AB The cross-coupling of 2-chloro-6-methoxycarbonyl-3-methylquinoxaline and 3-chloro-7-methoxy-1-methylquinoxalin-2(1H)-one with PhC.tplbond.CH in the presence of Pd(PPh3)4 gave 6-methoxycarbonyl-3-methyl-2-

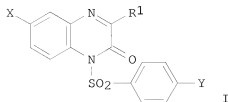
(phenylethynyl)quinoxaline and 7-methoxy-1-methyl-3-[4-(methoxycarbonyl)phenylethynyl]quinoxalin-2(1H)-one, resp. Subsequent conversion into the corresponding olefinic compds., 6-methoxycarbonyl-3-methyl-2-styrylquinoxaline and 7-methoxy-1-methyl-3-[4-(methoxycarbonyl)styryl]quinoxalin-2(1H)-one, was achieved by partial hydrogenation on Pd catalysts such as Lindlar catalyst and Pd/BaSO₄-quinoline, but the conformation of the resulting olefins was unexpectedly E-form. These quinoxalines showed fluorescent emission bands between 398-467 nm in MeCN when the excitation wavelength of 353-405 nm was applied. Further, 3-[4-(chlorocarbonyl)phenylethynyl]-7-methoxy-1-methylquinoxalin-2(1H)-one was demonstrated to be applicable to a fluorescence derivatization reagent for amines.

IT 263715-86-2P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of quinoxalines bearing styryl and phenylethynyl groups and application to fluorescence derivatization reagent)
 RN 263715-86-2 CAPLUS
 CN 6-Quinoxalinecarboxylic acid, 1,2-dihydro-3-methyl-2-oxo-, methyl ester (CA INDEX NAME)



REFERENCE COUNT: 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 92 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2000:97566 CAPLUS
 DOCUMENT NUMBER: 132:237062
 TITLE: Heterocyclic compounds with sulfone functional groups.
 II. Synthesis of 1-arenesulfonyl-2-quinoxalinones
 Hong, Young-Seuk; Kim, Hyun-Muk; Park, Yong-Tae; Kim, Ho-Sik
 CORPORATE SOURCE: Department of Chemistry, Keimyung University, Taegu, 704-701, S. Korea
 SOURCE: Bulletin of the Korean Chemical Society (2000), 21(1), 133-136
 CODEN: BKCSDE; ISSN: 0253-2964
 PUBLISHER: Korean Chemical Society
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI

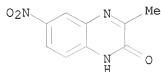


AB Title compds. I (R1, Y = Me, H; X = H, Me, NO2, Cl) were prepared by reaction of 2(1H)-quinoxalinones with benzenesulfonyl chlorides and of 1-chloro-2(1H)-quinoxalinones with Na benzenesulfonates.

IT 19801-10-6P 28082-84-0P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of 1-arenesulfonyl-2-quinoxalinones)

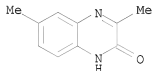
RN 19801-10-6 CAPLUS

CN 2(1H)-Quinoxalinone, 3-methyl-6-nitro- (CA INDEX NAME)



RN 28082-84-0 CAPLUS

CN 2(1H)-Quinoxalinone, 3,6-dimethyl- (CA INDEX NAME)



REFERENCE COUNT: 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 93 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1999:348900 CAPLUS

DOCUMENT NUMBER: 131:102258

TITLE: Preparation and biological evaluation of 6/7-trifluoromethyl(nitro)-, 6,7-difluoro-3-alkyl (aryl)-substituted-quinoxalin-2-ones. Part 3

AUTHOR(S): Sanna, Paolo; Carta, Antonio; Loriga, Mario; Zanetti, Stefania; Sechi, Leonardo

CORPORATE SOURCE: Dipartimento Farmaco Chimico Tossicologico, Sassari, I-07100, Italy

SOURCE: Farmaco (1999), 54(3), 169-177
 CODEN: FRMCE8; ISSN: 0014-827X

PUBLISHER: Elsevier Science S.A.

DOCUMENT TYPE: Journal

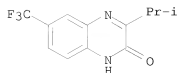
LANGUAGE: English

AB A new series of quinoxalinones 6/7-trifluoromethyl or nitro- and 6,7-difluoro substituted bearing various side-chains (alkyl, haloalkyl, benzyl and Ph groups) at C-3 of the ring system was synthesized and submitted to preliminary in vitro evaluation for antibacterial, antifungal, antimycobacterial, anticancer and anti-HIV activities.

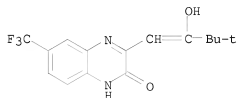
IT 231607-59-3P 231607-63-9P 231607-66-2P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
 (preparation and biol. evaluation of quinoxalinones)

RN 231607-59-3 CAPLUS

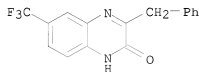
CN 2(1H)-Quinoxalinone, 3-(1-methylethyl)-6-(trifluoromethyl)- (CA INDEX NAME)



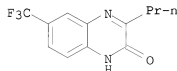
RN 231607-63-9 CAPLUS
 CN 2(1H)-Quinoxalinone, 3-(2-hydroxy-3,3-dimethyl-1-butenyl)-6-(trifluoromethyl)- (9CI) (CA INDEX NAME)



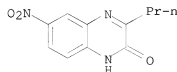
RN 231607-66-2 CAPLUS
 CN 2(1H)-Quinoxalinone, 3-(phenylmethyl)-6-(trifluoromethyl)- (CA INDEX NAME)



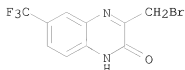
IT 231607-54-8P 231607-56-0P 231607-72-0P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation and biol. evaluation of quinoxalinones)
 RN 231607-54-8 CAPLUS
 CN 2(1H)-Quinoxalinone, 3-propyl-6-(trifluoromethyl)- (CA INDEX NAME)



RN 231607-56-0 CAPLUS
 CN 2(1H)-Quinoxalinone, 6-nitro-3-propyl- (CA INDEX NAME)



RN 231607-72-0 CAPLUS
 CN 2(1H)-Quinoxalinone, 3-(bromomethyl)-6-(trifluoromethyl)- (CA INDEX NAME)



REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 94 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1999:348899 CAPLUS

DOCUMENT NUMBER: 131:102257

TITLE: Synthesis of 3,6,7-substituted 2-quinoxalinones for evaluation of antimicrobial and anticancer activity. Part 2

AUTHOR(S): Sanna, Paolo; Carta, Antonio; Loriga, Mario; Zanetti, Stefania; Sechi, Leonardo

CORPORATE SOURCE: Dipartimento Farmaco Chimico Tossicologico, Sassari, I-07100, Italy

SOURCE: Farmaco (1999), 54(3), 161-168

CODEN: FRMCE8; ISSN: 0014-827X

PUBLISHER: Elsevier Science S.A.

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 131:102257

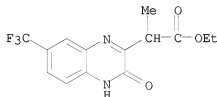
AB A new set of 35 3-alkyl and 3-[(ethoxycarbonyl)alkyl] 6- and/or 7-substituted 2-quinoxalinones was prepared and submitted to a preliminary in vitro investigation of their antimicrobial, anticancer and anti-HIV activities. Only poor or moderate activities were observed

IT 230953-77-2P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent) (preparation of 3,6,7-substituted 2-quinoxalinones for evaluation of antimicrobial and anticancer activity)

RN 230953-77-2 CAPLUS

CN 2-Quinoxalineacetic acid, 3,4-dihydro- α -methyl-3-oxo-7-(trifluoromethyl)-, ethyl ester (CA INDEX NAME)

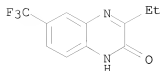


IT 230953-88-5P

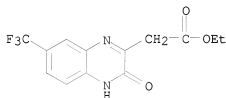
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation) (preparation of 3,6,7-substituted 2-quinoxalinones for evaluation of antimicrobial and anticancer activity)

RN 230953-88-5 CAPLUS

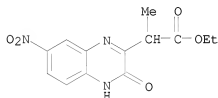
CN 2(1H)-Quinoxalinone, 3-ethyl-6-(trifluoromethyl)- (CA INDEX NAME)



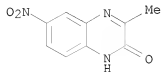
IT 230953-70-5P 230953-79-4P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (preparation of 3,6,7-substituted 2-quinoxalinones for evaluation of
 antimicrobial and anticancer activity)
 RN 230953-70-5 CAPLUS
 CN 2-Quinoxalineacetic acid, 3,4-dihydro-3-oxo-7-(trifluoromethyl)-, ethyl
 ester (CA INDEX NAME)



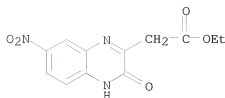
RN 230953-79-4 CAPLUS
 CN 2-Quinoxalineacetic acid, 3,4-dihydro- α -methyl-7-nitro-3-oxo-, ethyl
 ester (CA INDEX NAME)



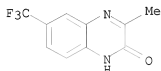
IT 19801-10-6P 67557-72-6P 98416-70-7P
 230953-90-9P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of 3,6,7-substituted 2-quinoxalinones for evaluation of
 antimicrobial and anticancer activity)
 RN 19801-10-6 CAPLUS
 CN 2(1H)-Quinoxalinone, 3-methyl-6-nitro- (CA INDEX NAME)



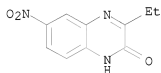
RN 67557-72-6 CAPLUS
 CN 2-Quinoxalineacetic acid, 3,4-dihydro-7-nitro-3-oxo-, ethyl ester (CA
 INDEX NAME)



RN 98416-70-7 CAPLUS
 CN 2(1H)-Quinoxalinone, 3-methyl-6-(trifluoromethyl)- (CA INDEX NAME)

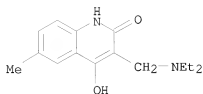


RN 230953-90-9 CAPLUS
 CN 2(1H)-Quinoxalinone, 3-ethyl-6-nitro- (CA INDEX NAME)

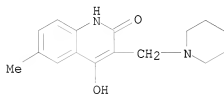


REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

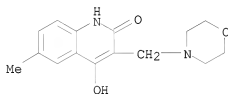
L28 ANSWER 95 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1999:180634 CAPLUS
 DOCUMENT NUMBER: 130:281972
 TITLE: 4-Hydroxycarbostyrils: a synthetic study
 AUTHOR(S): Jha, I. S.; Kanth, A. K.; Singh, L.
 CORPORATE SOURCE: Department of Chemistry, L.N. Mithila University,
 Darbhanga, 846 004, India
 SOURCE: Oriental Journal of Chemistry (1998), 14(3), 489-490
 CODEN: OJCHEG; ISSN: 0970-020X
 PUBLISHER: Oriental Scientific Publishing Co.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB Mannich bases of 4-hydroxycarbostyrils have been prepared
 IT 222614-60-0P 222614-61-1P 222614-62-2P
 222614-63-3P 222614-72-4P 222614-73-5P
 222614-74-6P 222614-75-7P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of Mannich bases of hydroxycarbostyrils)
 RN 222614-60-0 CAPLUS
 CN 2(1H)-Quinoxalinone, 3-[(diethylamino)methyl]-4-hydroxy-6-methyl- (CA INDEX NAME)



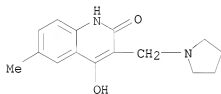
RN 222614-61-1 CAPLUS
 CN 2(1H)-Quinolinone, 4-hydroxy-6-methyl-3-(1-piperidinylmethyl)- (CA INDEX NAME)



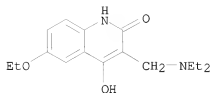
RN 222614-62-2 CAPLUS
 CN 2(1H)-Quinolinone, 4-hydroxy-6-methyl-3-(4-morpholinylmethyl)- (CA INDEX NAME)



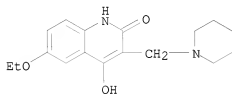
RN 222614-63-3 CAPLUS
 CN 2(1H)-Quinolinone, 4-hydroxy-6-methyl-3-(1-pyrrolidinylmethyl)- (CA INDEX NAME)



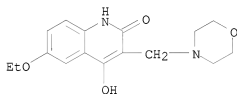
RN 222614-72-4 CAPLUS
 CN 2(1H)-Quinolinone, 3-[(diethylamino)methyl]-6-ethoxy-4-hydroxy- (CA INDEX NAME)



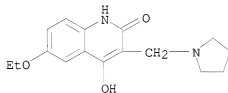
RN 222614-73-5 CAPLUS
 CN 2(1H)-Quinolinone, 6-ethoxy-4-hydroxy-3-(1-piperidinylmethyl)- (CA INDEX NAME)



RN 222614-74-6 CAPLUS
 CN 2(1H)-Quinolinone, 6-ethoxy-4-hydroxy-3-(4-morpholinylmethyl)- (CA INDEX NAME)



RN 222614-75-7 CAPLUS
 CN 2(1H)-Quinolinone, 6-ethoxy-4-hydroxy-3-(1-pyrrolidinylmethyl)- (CA INDEX NAME)



REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 96 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1999:124112 CAPLUS
 DOCUMENT NUMBER: 130:231368
 TITLE: Novel asymmetric tetradentate Schiff base ligands derived from 6-methyl-3-formyl-4-hydroxy-2-(1H)-quinolone and their metal complexes
 AUTHOR(S): Emara, Adel A. A.

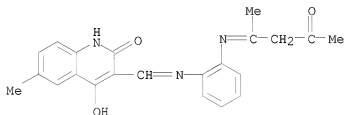
CORPORATE SOURCE: Department of Chemistry, Faculty of Education, Ain
Shams University, Cairo, Egypt
SOURCE: Synthesis and Reactivity in Inorganic and
Metal-Organic Chemistry (1999), 29(1), 87-103
CODEN: SRIMCN; ISSN: 0094-5714
PUBLISHER: Marcel Dekker, Inc.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 130:231368

AB Novel asym., tetradentate, dibasic Schiff base ligands were synthesized by the condensation of the half-unit Schiff base ligand 3-[o-aminophenyliminomethyl]-4-hydroxy-6-methyl-2-(1H)-quinolone with acetylacetone and salicylaldehyde. Cu(II), Ni(II), UO₂(VI) and Fe(III) complexes of both ligands were prepared using different salts in the case of Cu(II) and Ni(II) cations. The structures of the ligands and the complexes were elucidated by chemical analyses, IR, UV-visible, mass spectra and magnetic moment measurements. Both Cu(II) and Ni(II) cations are initially coordinated to the N2O2 coordinating sites of the ligands. The Cu(II) complexes were either square-planar mononuclear compds., [LCu].xH₂O, or dinuclear compds., [LCu₂(OAc)₂], where both square-planar and octahedral geometries exist in the same complex mol., while the Ni(II) complexes were either diamagnetic square-planar or paramagnetic compds. where both octahedral and square-planar geometries do exist, indicating their anomalous behavior. Both UO₂(VI) and Fe(III) cations are initially coordinated to the outer O-O atoms of the ligand mol.(s). The uranyl complex of the ligand H₂La is coordinated to two ligand mols. while that of ligand H₂Lb is coordinated to only one ligand mol. and to a bidentate acetate group. The Fe(III) complexes are dinuclear where each Fe(III) cation is linked to only one ligand mol. and the two Fe(III) cations are bridged through two Cl atoms. The geometry of the uranyl complexes are pentagonal bipyramidal while the Fe(III) complexes are octahedral.

IT 221055-78-3P 221055-79-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(for preparation of transition metal Schiff base complexes)

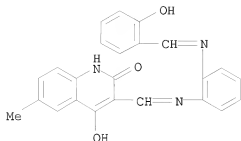
RN 221055-78-3 CAPLUS

CN 2-(1H)-Quinolinone, 4-hydroxy-6-methyl-3-[[2-[(1-methyl-3-oxobutylidene)amino]phenyl]imino]methyl]- (CA INDEX NAME)

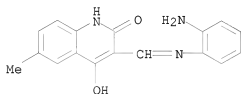


RN 221055-79-4 CAPLUS

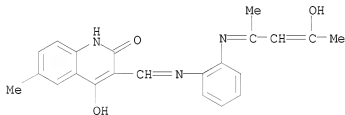
CN 2(1H)-Quinolinone, 4-hydroxy-3-[[[2-[[2-(2-hydroxyphenyl)methylene]amino]phenyl]imino]methyl]-6-methyl]- (CA INDEX NAME)



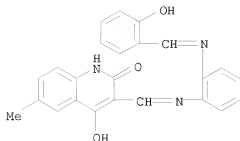
IT 193528-38-0, 3-[o-Aminophenyliminomethyl]-4-hydroxy-6-methyl-2-(1H)-quinolone
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (for preparation of transition metal formylhydroxyquinolone acetylaceton
 salicylaldehyde Schiff base complexes)
 RN 193528-38-0 CAPLUS
 CN 2(1H)-Quinolone, 3-[(2-aminophenyl)imino]methyl-4-hydroxy-6-methyl- (CA INDEX NAME)



IT 221055-76-1DP, uranyl aqua complexes 221055-79-4DP,
 uranyl aqua complexes
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
 (preparation and coordination geometry of)
 RN 221055-76-1 CAPLUS
 CN 2(1H)-Quinolone, 4-hydroxy-3-[[[2-[(3-hydroxy-1-methyl-2-butenylidene)amino]phenyl]imino]methyl]-6-methyl- (9CI) (CA INDEX NAME)



RN 221055-79-4 CAPLUS
 CN 2(1H)-Quinolone, 4-hydroxy-3-[[[2-[[2-[(3-hydroxyphenyl)methylene]amino]phenyl]imino]methyl]-6-methyl- (CA INDEX NAME)



REFERENCE COUNT: 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 97 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1998:467855 CAPLUS

DOCUMENT NUMBER: 129:189228

TITLE: 4-Hydroxycarbostyryl: Part II. Studies on bromination of 3-alkyl/benzyl-4-hydroxycarbostyryls
 AUTHOR(S): Jha, I. S.; Choudhary, C.; Jha, A. S.; Kanth, A. K.; Jha, S. S.

CORPORATE SOURCE: Department Chemistry, L. N. Mithila University, Bihar, 846 004, India

SOURCE: Oriental Journal of Chemistry (1998), 14(1), 147-148
 CODEN: OJCHEG; ISSN: 0970-020X

PUBLISHER: Oriental Scientific Publishing Co.

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Bromination of 3-alkyl/benzyl-4-hydroxycarbostyryls with anhydrous cupric bromide or Ph tri-Me ammonium perbromide affords 3-bromo derivs. For example, refluxing 3,6-dimethyl-4-hydroxycarbostyryl with cupric bromide in CHCl₃ for 3 h gave the corresponding 3-bromo derivative

IT 108973-32-6P 211859-18-6P 211859-20-0P

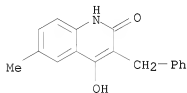
211859-21-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(bromination of 3-alkyl/benzyl-4-hydroxycarbostyryls)

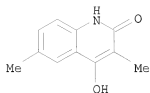
RN 108973-32-6 CAPLUS

CN 2(1H)-Quinolinone, 4-hydroxy-6-methyl-3-(phenylmethyl)- (CA INDEX NAME)

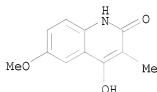


RN 211859-18-6 CAPLUS

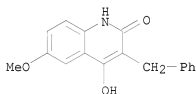
CN 2(1H)-Quinolinone, 4-hydroxy-3,6-dimethyl- (CA INDEX NAME)



RN 211859-20-0 CAPLUS
 CN 2(1H)-Quinolinone, 4-hydroxy-6-methoxy-3-methyl- (CA INDEX NAME)

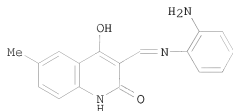


RN 211859-21-1 CAPLUS
 CN 2(1H)-Quinolinone, 4-hydroxy-6-methoxy-3-(phenylmethyl)- (CA INDEX NAME)



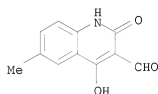
REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 98 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1997:477731 CAPLUS
 DOCUMENT NUMBER: 127:170611
 TITLE: A novel type half-unit Schiff base ligand,
 3-[o-aminophenyliminomethyl]-4-hydroxy-6-methyl-2-(1H)-
 quinolone and its metal complexes. Part IV
 AUTHOR(S): Khalil, Saied M. E.; Taha, Ali; Abd El-Hameed, Faten
 S. M.
 CORPORATE SOURCE: Department of Chemistry, Faculty of Education,
 Ain-Shams University, Cairo, Egypt
 SOURCE: Synthesis and Reactivity in Inorganic and
 Metal-Organic Chemistry (1997), 27(6), 887-906
 CODEN: SRIMCN; ISSN: 0094-5714
 PUBLISHER: Dekker
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 127:170611
 GI

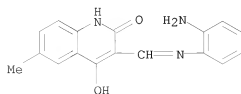


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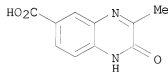
- AB A novel half-unit Schiff base ligand I derived from 6-methyl-3-formyl-4-hydroxy-2-(1H)-quinolone and o-phenylenediamine was prepared. The Schiff base acts as a monobasic ligand. Metal complexes [MLX]₂, M = Cu(II), Ni(II) or Fe(III); X = Cl or OAc were obtained by the reaction of metal acetates or chlorides with the ligand, with the ligand behaving as a terdentate. However, the reaction of M(ClO₄)₂·6H₂O, M = Cu(II) or Ni(II), VOSO₄ and UO₂(OAc)·2H₂O with the ligand, yielded [ML₂], where the ligand behaves as a bidentate. The ligand and its metal complexes were characterized by elemental analyses, UV-visible, IR and mass spectra. Also, magnetic susceptibilities of the metal complexes were determined.
- IT 156992-48-2, 3-Formyl-4-hydroxy-6-methyl-2(1H)-quinolone
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (for preparation of half-unit Schiff base ligand
 (aminophenyliminomethyl)hydroxyquinolone)
- RN 156992-48-2 CAPLUS
- CN 3-Quinolonecarboxaldehyde, 1,2-dihydro-4-hydroxy-6-methyl-2-oxo- (CA INDEX NAME)



- IT 193528-38-0P, 3-[o-Aminophenyliminomethyl]-4-hydroxy-6-methyl-2-(1H)-quinolone
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (for preparation of metal complexes of half-unit Schiff base
 (aminophenyliminomethyl)hydroxyquinolone)
- RN 193528-38-0 CAPLUS
- CN 2(1H)-Quinolone, 3-[[2-(aminophenyl)imino]methyl]-4-hydroxy-6-methyl- (CA INDEX NAME)

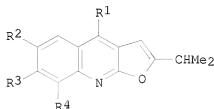


L28 ANSWER 99 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1996:624080 CAPLUS
 DOCUMENT NUMBER: 125:269024
 TITLE: Synthesis and properties of new fluorogenic substrates for peroxidase
 AUTHOR(S): Li, Yuanzong; Townshend, Alan; Gao, Jun; Liu, Hongel; Chang, Wenbao; Ci, Yunxiang
 CORPORATE SOURCE: Inst. of Chemistry and Molecular Engineering, Peking Univ., Beijing, 100871, Peop. Rep. China
 SOURCE: Fushun Shiyou Xueyuan Xuebao (1996), 16(3), 61-63
 CODEN: FSXEE8; ISSN: 1005-3883
 PUBLISHER: Fushun Shiyou Xueyuan Xuebao Bianjibu
 DOCUMENT TYPE: Journal
 LANGUAGE: Chinese
 AB Four 3,4-dihydroquinoxalin-2(1H)-one derivs., i.e., 3,4-dihydroquinoxalin-2(1H)-one (DHQ), 3-methyl-3,4-dihydroquinoxalin-2(1H)-one (MDHQ), 3,4-dihydroquinoxalin-2(1H)-one -6-acid, 3-methyl-3,4-dihydroquinoxalin-2(1H)-one-6-acid, and N,N'-dicyanomethyl-O-phenylenediamine (DCM-OPA) were synthesized as potential substrates for horseradish peroxidase (HRP). Among these compds. DCM-OPA, DHQ and MDHQ can be prepared by very simple methods in a pure form in large quantities. Their properties for use as fluorogenic substrates for HRP and its mimetic enzyme hemin were comparatively studied with com. available substrates, i.e., p-hydroxyphenylacetic acid (p-HPA), p-hydroxypropionic acid (p-HPPA), homovanillic acid (HVA) and tyramine, by a flow injection method. The results showed that DCM-OPA and MDHQ are the best among the five synthesized substrates, and p-HPPA and p-HPA are better than HVA and tyramine. Substrates p-HPPA, p-HPA, DCM-OPA and MDHQ showed comparable ability for H2O2 detection in HRP and hemin catalyzed reaction systems with the lowest detection limits in the range of 1.apprx.10 nmol/L region. For the detection of enzyme DCM-OPA is the most sensitive one of all the substrates studied. The stability of DCM-OPA is better than MDHQ, and both of them are stable at least for a month in a refrigerator.
 IT 103752-83-6P
 RL: ARG (Analytical reagent use); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation); USES (Uses)
 (as substrate; synthesis and properties of new fluorogenic substrates for peroxidase)
 RN 103752-83-6 CAPLUS
 CN 6-Quinoxalinecarboxylic acid, 1,2-dihydro-3-methyl-2-oxo- (CA INDEX NAME)



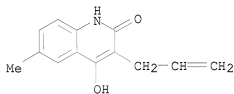
L28 ANSWER 100 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1996:304552 CAPLUS
 DOCUMENT NUMBER: 125:86529
 TITLE: Synthesis of furo and pyrano-quinolines
 AUTHOR(S): Gunasekaran, C.; Prasad, K.J. Rajendra
 CORPORATE SOURCE: Department of Chemistry, Bharathiar University, Coimbatore, 641 046, India
 SOURCE: Indian Journal of Heterocyclic Chemistry (1996), 5(3), 169-172
 CODEN: IJCHEI; ISSN: 0971-1627

PUBLISHER: Lucknow University, Dep. of Chemistry
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 125:86529
 GI



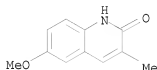
I

AB Prevost reaction of 3-prenyl-2-quinolinones using mercuric oxide and iodine in glacial acetic acid affords the furo[2,3-b]quinolines I [R1 = Ph, OMe, R2-R4 = H; R = C6H4OMe-4, R2 = Cl, R3, R4 = H; R1, R2 = H, R3R4 = CH:CHCH:CH]. However, the similar reaction of 3-allyl-2-quinolinones gives pyrano[3,2-c]quinolines and a pyrano[2,3-b]quinoline.
 IT 178059-94-4
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (preparation of furo- and pyranoquinolines)
 RN 178059-94-4 CAPLUS
 CN 2(1H)-Quinolinone, 4-hydroxy-6-methyl-3-(2-propenyl)- (9CI) (CA INDEX NAME)

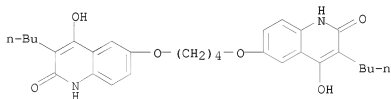


L28 ANSWER 101 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1996:282687 CAPLUS
 DOCUMENT NUMBER: 125:58285
 TITLE: Metalation of methoxy-2(1H)-quinolinones
 AUTHOR(S): Moreno, Trinidad; Fernandez, Maria; de la Cuesta, Elena; Avendano, Carmen
 CORPORATE SOURCE: Facultad de Farmacia, Universidad Complutense, Madrid, 28040, Spain
 SOURCE: Heterocycles (1996), 43(4), 817-828
 CODEN: HTCYAM; ISSN: 0385-5414
 PUBLISHER: Japan Institute of Heterocyclic Chemistry
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 125:58285
 AB A methoxy group at the 5- or 6-position of 2(1H)-quinolinones is compatible with the regioselective electrophilic substitution and chain enlargement at the 3-position imposed by the ortho-directed effect of the quinolinone lithium salt. The coordination effect of a methoxy group at the 8-position changes the reaction course, precluding the ortho-directed

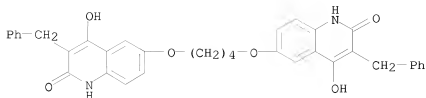
metalation and enhancing the conjugate addition at the 4-position.
 IT 123990-77-2P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (regioselective methylation and silylation of methoxyquinolinones via
 metalation)
 RN 123990-77-2 CAPLUS
 CN 2(1H)-Quinolinone, 6-methoxy-3-methyl- (CA INDEX NAME)



L28 ANSWER 102 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1996:123343 CAPLUS
 DOCUMENT NUMBER: 124:260801
 TITLE: Synthesis and some reactions of 3-substituted
 1,4-bis(4-hydroxy-2-oxo-1,2-dihydroquinolin-6-
 yloxy)butanes
 AUTHOR(S): Klasek, Antonin; Kafka, Stanislav; Kappe, Thomas
 CORPORATE SOURCE: Dep. Eenvironmental Chem. Technol., Technical Univ.
 Brno, Brno, 762 72, Czech Rep.
 SOURCE: Collection of Czechoslovak Chemical Communications
 (1995), 60(12), 2137-46
 CODEN: CCCCAK; ISSN: 0010-0765
 PUBLISHER: Institute of Organic Chemistry and Biochemistry,
 Academy of Sciences of the Czech Republic
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB Condensation of 1,4-bis(4-aminophenoxy)butane and its N,N'-dimethyl derivative
 with substituted di-Et malonates gave 1,4-bis(4-hydroxy-2-oxo-1,2-
 dihydroquinolin-6-yloxy)butane. From these compds. 1,4-bis(3-halo-2,4-
 dioxo-1,2,3,4-tetrahydroquinolin-6-yloxy)butanes and 1,4-bis(3-hydroxy-2,4-
 dioxo-1,2,3,4-tetrahydroquinolin-6-yloxy)butanes were prepared
 IT 175440-87-6P 175440-88-7P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (preparation and halogenation of)
 RN 175440-87-6 CAPLUS
 CN 2(1H)-Quinolinone, 6,6'-[1,4-butanediylbis(oxy)]bis[3-butyl-4-hydroxy-
 (9CI) (CA INDEX NAME)



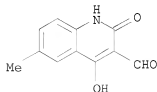
RN 175440-88-7 CAPLUS
 CN 2(1H)-Quinolinone, 6,6'-[1,4-butanediylbis(oxy)]bis[4-hydroxy-3-
 (phenylmethyl)- (9CI) (CA INDEX NAME)



L28 ANSWER 103 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1996:86212 CAPLUS
 DOCUMENT NUMBER: 124:260986
 TITLE: Quinolones substituted by different moieties. Part 1. Synthesis of new polynuclear heterocyclic systems as substituents to 4-hydroxy-1-methyl-2(1H)quinolinone
 AUTHOR(S): Ismail, Mostafa M.; Morsy, Jehan M.; Abass, Mohamed
 CORPORATE SOURCE: Chem. Dep., Ain Shams Univ., Cairo, Egypt
 SOURCE: Journal of the Serbian Chemical Society (1996), 61(1), 9-15
 CODEN: JSCSEN; ISSN: 0352-5139
 PUBLISHER: Serbian Chemical Society
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 124:260986
 GI

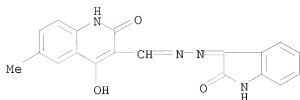
* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Some new heterocyclic systems substituted to 2(1H)quinolone at position 3 have been synthesized through the condensation of 2(1H)quinolinone-3-carbaldehydes I (R4 = Me, R5 = H; R4 = H, R5 = Me) with isatin-3-hydrazones II (R1 = R2 = R3 = H; R1 = Cl, R2 = R3 = H; R1 = R3 = H, R2 = Cl; R1 = R2 = H, R3 = Cl) giving the coupled products which were introduced into the Mannich condensation reaction to produce compds. III (Z = O, CH2). Indolotriazinotetrazinylquinoline IV and quinoxalinotriazinotetrazinylquinoline V were also prepared
 IT 156992-48-2
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (preparation of quinolones substituted by polynuclear heterocyclic moieties)
 RN 156992-48-2 CAPLUS
 CN 3-Quinolonecarboxaldehyde, 1,2-dihydro-4-hydroxy-6-methyl-2-oxo- (CA INDEX NAME)

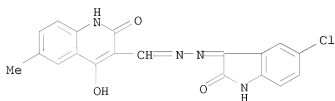


IT 174838-57-4P 174838-58-5P 174838-59-6P
 174838-60-9P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of quinolones substituted by polynuclear heterocyclic moieties)

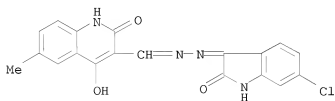
RN 174838-57-4 CAPLUS
 CN 3-Quinolinedicarboxaldehyde, 1,2-dihydro-4-hydroxy-6-methyl-2-oxo-,
 3-[(1,2-dihydro-2-oxo-3H-indol-3-ylidene)hydrazone] (9CI) (CA INDEX NAME)



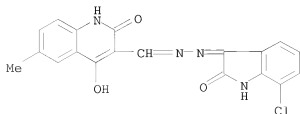
RN 174838-58-5 CAPLUS
 CN 3-Quinolinedicarboxaldehyde, 1,2-dihydro-4-hydroxy-6-methyl-2-oxo-,
 3-[(5-chloro-1,2-dihydro-2-oxo-3H-indol-3-ylidene)hydrazone] (9CI) (CA
 INDEX NAME)



RN 174838-59-6 CAPLUS
 CN 3-Quinolinedicarboxaldehyde, 1,2-dihydro-4-hydroxy-6-methyl-2-oxo-,
 3-[(6-chloro-1,2-dihydro-2-oxo-3H-indol-3-ylidene)hydrazone] (9CI) (CA
 INDEX NAME)

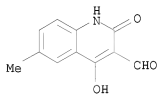


RN 174838-60-9 CAPLUS
 CN 3-Quinolinedicarboxaldehyde, 1,2-dihydro-4-hydroxy-6-methyl-2-oxo-,
 3-[(7-chloro-1,2-dihydro-2-oxo-3H-indol-3-ylidene)hydrazone] (9CI) (CA
 INDEX NAME)

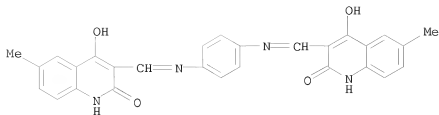


ACCESSION NUMBER: 1996:69472 CAPLUS
 DOCUMENT NUMBER: 124:218524
 TITLE: Preparation and properties of metal complexes with new Schiff bases derived from 6-methyl-3-formyl-4-hydroxy-2-(1H)quinolone and o- and p-phenylenediamine. Part III
 AUTHOR(S): Khalil, Saied M. E.; Emara, Adel A. A.; Abd El-Hameed, Faten S. M.; Taha, Ali
 CORPORATE SOURCE: Fac. Educ., Ain-Shams Univ., Roxy/Cairo, Egypt
 SOURCE: Journal of the Chemical Society of Pakistan (1995), 17(3), 170-6
 CODEN: JCSPDF; ISSN: 0253-5106
 PUBLISHER: Chemical Society of Pakistan
 DOCUMENT TYPE: Journal
 LANGUAGE: English

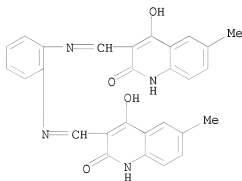
AB The preparation of metal complexes of Schiff bases derived from 6-methyl-3-formyl-4-hydroxy-2-(1H)quinolone and o- and p-phenylenediamine are described. The ligands behave either as dibasic bidentate or tetradentate. Mono-, di- and tetra-nuclear complexes were obtained. Different products were obtained from similar reactions of either ligands due to their structural differences. Also, different metals and their counter anions yielded a variety of products. Complexes of Cu²⁺, Ni²⁺ and VO²⁺ have similar structures for each of the ligands used. However, UO₂²⁺ and Fe³⁺ complexes were different, also different from one ligand to the other. The acetate and chloride ions were found to be coordinated to the metals in some products. The products were characterized by their visible and IR spectra and measurements of their magnetic moments.
 IT 156992-48-2
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (for preparation of transition metal formylhydroxyquinolone phenylenediamine Schiff base complexes)
 RN 156992-48-2 CAPLUS
 CN 3-Quinolincarboxaldehyde, 1,2-dihydro-4-hydroxy-6-methyl-2-oxo- (CA INDEX NAME)



IT 125598-90-5P 174156-32-2P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (for preparation of transition metal formylhydroxyquinolone phenylenediamine Schiff base complexes)
 RN 125598-90-5 CAPLUS
 CN 2(1H)-Quinolinone, 3,3'-[1,4-phenylenebis(nitrilomethylidyne)]bis[4-hydroxy-6-methyl- (9CI) (CA INDEX NAME)

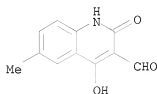


RN 174156-32-2 CAPLUS
 CN 2(1H)-Quinolinone, 3,3'-[1,2-phenylenebis(nitrilomethylidene)]bis[4-hydroxy-6-methyl- (9CI) (CA INDEX NAME)

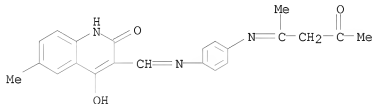


L28 ANSWER 105 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1995:832660 CAPLUS
 DOCUMENT NUMBER: 123:274354
 TITLE: Copper(II), nickel(II), oxovanadium(IV) and dioxouranium(VI) complexes of novel asymmetric tetradentate Schiff base ligands derived from 6-methyl-3-formyl-4-hydroxy-2-(1H)-quinolone. Part V Khalil, Saied M. E.; Mashaly, Mahmoud M.; Emara, Adel A. A.
 AUTHOR(S):
 CORPORATE SOURCE: Dep. Chem., Faculty Education, Ain Shams University, Cairo, Egypt
 SOURCE: Synthesis and Reactivity in Inorganic and Metal-Organic Chemistry (1995), 25(8), 1373-89
 CODEN: SRIMCN; ISSN: 0094-5714
 PUBLISHER: Dekker
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB The novel, half-unit ligand obtained by the single condensation of 6-methyl-3-formyl-4-hydroxy-2-(1H)-quinolone and p-phenylenediamine, was condensed with either acetylacetone or salicylaldehyde to yield novel, asym. tetradentate Schiff base ligands, H2La and H2Lb, resp. The reactions of the ligands with Cu²⁺, Ni²⁺, VO²⁺ and UO₂²⁺ salts yielded [L2M2].nH₂O, except that of the uranyl complex of the ligand H2La which has the formula [La(UO₂)₂(OAc)₂(OH)₂]. The ligands and metal complexes were characterized by elemental analyses, IR, UV-visible, mass and ESR spectra and magnetic measurements. The Cu²⁺ complexes are distorted tetrahedral, the Ni²⁺ complexes are octahedral, the VO²⁺ complexes are square pyramidal and the UO₂²⁺ complexes are pentagonal bipyramidal. The vanadyl and Ni complexes showed antiferromagnetic interaction between adjacent metal cations.

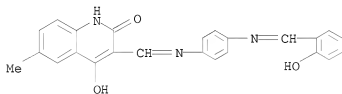
IT 156992-48-2
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (for preparation of asym. Schiff bases)
 RN 156992-48-2 CAPLUS
 CN 3-Quinolincarboxaldehyde, 1,2-dihydro-4-hydroxy-6-methyl-2-oxo- (CA
 INDEX NAME)



IT 169306-98-3P 169306-99-4P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (preparation and complexation with transition metals)
 RN 169306-98-3 CAPLUS
 CN 2(1H)-Quinolinsonone, 4-hydroxy-6-methyl-3-[[[4-[(1-methyl-3-oxobutylidene)amino]phenyl]imino]methyl]- (CA INDEX NAME)



RN 169306-99-4 CAPLUS
 CN 2(1H)-Quinolinsonone, 4-hydroxy-3-[[[4-[[[2-hydroxyphenyl]methylene]amino]phenyl]imino]methyl]-6-methyl- (CA INDEX NAME)



L28 ANSWER 106 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1995:711976 CAPLUS
 DOCUMENT NUMBER: 123:111861
 TITLE: Preparation of piperidinylcarbonylcarbostyrils as
 peripheral vasodilators
 INVENTOR(S): Fujioka, Takafumi; Teramoto, Shuji; Tanaka, Michinori;
 Shimizu, Hiroshi; Tabusa, Fujio; Tominaga, Michiaki
 PATENT ASSIGNEE(S): Otsuka Pharmaceutical Co., Ltd., Japan
 SOURCE: PCT Int. Appl., 111 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9419339	A1	19940901	WO 1994-JP157	19940203
W: AU, CA, CN, KR, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
JP 06239858	A	19940830	JP 1993-26594	19930216
CA 2133207	A1	19940901	CA 1994-2133207	19940203
AU 9459788	A	19940914	AU 1994-59788	19940203
AU 666259	B2	19960201		
EP 636128	A1	19950201	EP 1994-905839	19940203
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
CN 1102527	A	19950510	CN 1994-190064	19940203
US 5591751	A	19970107	US 1994-318801	19941014
PRIORITY APPLN. INFO.:			JP 1993-26594	A 19930216
			JP 1993-76907	A 19930402
			JP 1993-80677	A 19930407
			WO 1994-JP157	W 19940203

OTHER SOURCE(S): MARPAT 123:111861

GI For diagram(s), see printed CA Issue.

AB Title compds. I (R1A = H, alkyl; R2A, R3A = H, alkyl, (phenylthio)alkyl, (substituted) phenoxyalkyl; R4A = H, alkyl, alkoxy, O2N, (phenylalkyl)amino, etc.) or a salt thereof, are prepared. Di-Et cyanophosphate and Et3N were added to 6-carboxy-8-ethylcarbostyryl and 4-[methyl(2-phenylethyl)amino]piperidine in DMF to give the title compound II. Representative I showed peripheral vasodilating activity. Pharmaceutical formulations comprising I, are given.

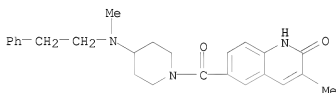
IT 165591-74-2P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of piperidinyllcarbonylcarbostyrils as peripheral vasodilators)

RN 165591-74-2 CAPLUS

CN 4-Piperidinamine, 1-[(1,2-dihydro-3-methyl-2-oxo-6-quinolinyl)carbonyl]-N-methyl-N-(2-phenylethyl)- (9CI) (CA INDEX NAME)



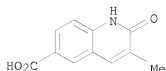
IT 165592-44-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of piperidinyllcarbonylcarbostyrils as peripheral vasodilators)

RN 165592-44-9 CAPLUS

CN 6-Quinolinecarboxylic acid, 1,2-dihydro-3-methyl-2-oxo- (CA INDEX NAME)



L28 ANSWER 107 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1995:504917 CAPLUS

DOCUMENT NUMBER: 123:313811

TITLE: Synthesis of some multiazaheterocycles as substituents to quinolone moiety of specific biological activity

AUTHOR(S): Mohamed, E. A.; Ismail, M. M.; Gabr, Y.; Abass, M.

CORPORATE SOURCE: Fac. Education, Ain Shams Univ., Cairo, Egypt

SOURCE: Chemical Papers (1994), 48(4), 285-92

CODEN: CHPAEG; ISSN: 0366-6352

PUBLISHER: Slovak Academy of Sciences, Institute of Chemistry

DOCUMENT TYPE: Journal

LANGUAGE: English

AB New Schiff bases, hydrazones and semicarbazones derived from 1,2-dihydro-4-hydroxy-6-methyl-2-oxoquinoline-3-carbaldehyde, have been synthesized. The semicarbazone was reacted with 2,3-dichloroquinoxaline, chloroacetic acid, and oxalyl chloride to give multiazaheterocycles substituted on the quinolone moiety at position 3. Condensation of the 2-imidazolidinethione derivative with some amines and hydrazines yielded some new heterocyclic systems. Some of these imine derivs. were tested for their bactericidal, fungicidal, and molluscicidal activities. The structure of all new quinolone derivs. have been characterized by chemical reactions and phys. tools.

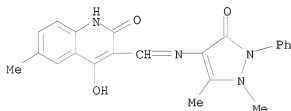
IT 161152-07-4P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent)

(synthesis and biol. activity of (aryliminomethyl)quinolones)

RN 161152-07-4 CAPLUS

CN 2(1H)-Quinolinone, 3-[[[(2,3-dihydro-1,5-dimethyl-3-oxo-2-phenyl-1H-pyrazol-4-yl)imino]methyl]-4-hydroxy-6-methyl- (CA INDEX NAME)



IT 161152-26-7P 169970-01-8P 169970-02-9P

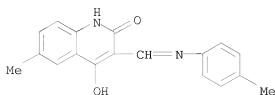
169970-03-0P 169970-04-1P 169970-05-2P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

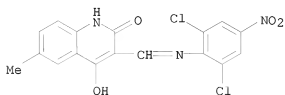
(synthesis and biol. activity of (aryliminomethyl)quinolones)

RN 161152-26-7 CAPLUS

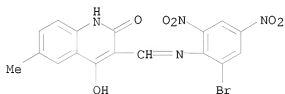
CN 2(1H)-Quinolinone, 4-hydroxy-6-methyl-3-[[[(4-methylphenyl)imino]methyl]- (CA INDEX NAME)



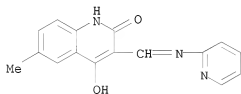
RN 169970-01-8 CAPLUS
 CN 2(1H)-Quinolinone, 3-[[(2,6-dichloro-4-nitrophenyl) imino]methyl]-4-hydroxy-6-methyl- (CA INDEX NAME)



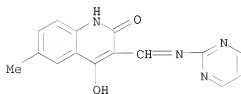
RN 169970-02-9 CAPLUS
 CN 2(1H)-Quinolinone, 3-[[(2-bromo-4,6-dinitrophenyl) imino]methyl]-4-hydroxy-6-methyl- (CA INDEX NAME)



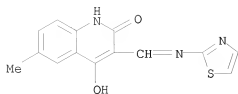
RN 169970-03-0 CAPLUS
 CN 2(1H)-Quinolinone, 4-hydroxy-6-methyl-3-[(2-pyridinylimino)methyl]- (CA INDEX NAME)



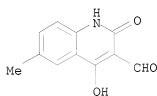
RN 169970-04-1 CAPLUS
 CN 2(1H)-Quinolinone, 4-hydroxy-6-methyl-3-[(2-pyrimidinylimino)methyl]- (CA INDEX NAME)



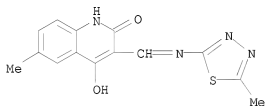
RN 169970-05-2 CAPLUS
 CN 2(1H)-Quinolinone, 4-hydroxy-6-methyl-3-[(2-thiazolylimino)methyl]- (CA INDEX NAME)



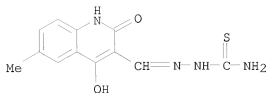
IT 156992-48-2P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (synthesis and biol. activity of (aryliminomethyl)quinolones)
 RN 156992-48-2 CAPLUS
 CN 3-Quinolonecarboxaldehyde, 1,2-dihydro-4-hydroxy-6-methyl-2-oxo- (CA
 INDEX NAME)



IT 169970-06-3P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (synthesis and biol. activity of (aryliminomethyl)quinolones)
 RN 169970-06-3 CAPLUS
 CN 2-(1H)-Quinolone, 4-hydroxy-6-methyl-3-[[(5-methyl-1,3,4-thiadiazol-2-
 yl)imino]methyl]- (CA INDEX NAME)

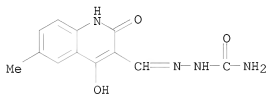


IT 169970-09-6P 169970-10-9P 169970-11-0P
 169970-12-1P 169970-13-2P 169970-16-5P
 169970-18-7P 169970-21-2P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (synthesis of multiazaheterocyclyl-substituted quinolones)
 RN 169970-09-6 CAPLUS
 CN Hydrazinecarbothioamide, 2-[(1,2-dihydro-4-hydroxy-6-methyl-2-oxo-3-
 quinolinyl)methylene]- (CA INDEX NAME)



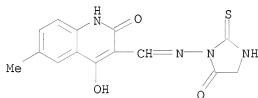
RN 169970-10-9 CAPLUS

CN Hydrazinecarboxamide, 2-[(1,2-dihydro-4-hydroxy-6-methyl-2-oxo-3-quinolinyl)methylene]- (CA INDEX NAME)



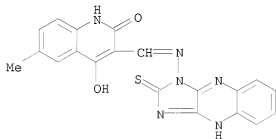
RN 169970-11-0 CAPLUS

CN 2(1H)-Quinolinone, 4-hydroxy-6-methyl-3-[[(5-oxo-2-thioxo-1-imidazolidinyl)imino]methyl]- (CA INDEX NAME)



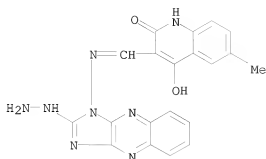
RN 169970-12-1 CAPLUS

CN 2(1H)-Quinolinone, 3-[[(2,3-dihydro-2-thioxo-1H-imidazo[4,5-b]quinoxalin-1-yl)imino]methyl]-4-hydroxy-6-methyl- (CA INDEX NAME)

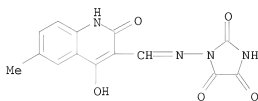


RN 169970-13-2 CAPLUS

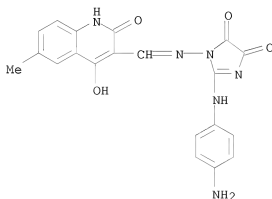
CN 2H-Imidazo[4,5-b]quinoxalin-2-one, 1-[[(1,2-dihydro-4-hydroxy-6-methyl-2-oxo-3-quinolinyl)methylene]amino]-1,3-dihydro-, 2-hydrazone (9CI) (CA INDEX NAME)



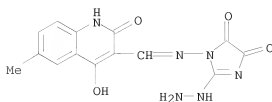
RN 169970-16-5 CAPLUS
 CN Imidazolidinetrione, [[(1,2-dihydro-4-hydroxy-6-methyl-2-oxo-3-quinolinyl)methylene]amino]- (9CI) (CA INDEX NAME)



RN 169970-18-7 CAPLUS
 CN 1H-Imidazole-4,5-dione, 2-[(4-aminophenyl)amino]-1-[[(1,2-dihydro-4-hydroxy-6-methyl-2-oxo-3-quinolinyl)methylene]amino]- (CA INDEX NAME)



RN 169970-21-2 CAPLUS
 CN Imidazolidinetrione, [[(1,2-dihydro-4-hydroxy-6-methyl-2-oxo-3-quinolinyl)methylene]amino]-, 2-hydrazone (9CI) (CA INDEX NAME)

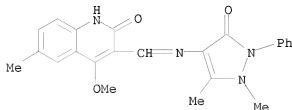


IT 169970-07-4P 169970-08-5P 169970-14-3P
 169970-15-4P 169970-17-6P 169970-19-8P
 169970-20-1P 169970-22-3P 169970-23-4P
 169970-24-5P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (synthesis of multiazaheterocyclyl-substituted quinolones)

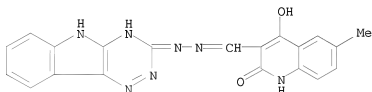
RN 169970-07-4 CAPLUS

CN 2 (1H)-Quinolinone, 3-[[(2,3-dihydro-1,5-dimethyl-3-oxo-2-phenyl-1H-pyrazol-4-yl) imino]methyl]-4-methoxy-6-methyl- (CA INDEX NAME)



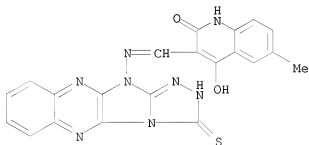
RN 169970-08-5 CAPLUS

CN 3-Quinolinedicarboxaldehyde, 1,2-dihydro-4-hydroxy-6-methyl-2-oxo-,
 3-(2H-1,2,4-triazino[5,6-b]indol-3-yl)hydrazone) (9CI) (CA INDEX NAME)



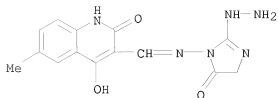
RN 169970-14-3 CAPLUS

CN 2 (1H)-Quinolinone, 3-[[(2,3-dihydro-3-thioxo-1H-1,2,4-triazolo[4',3':1,2]imidazo[4,5-b]quinoxalin-11-yl) imino]methyl]-4-hydroxy-6-methyl- (CA INDEX NAME)

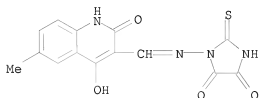


RN 169970-15-4 CAPLUS

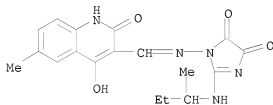
CN 2,4-Imidazolidinedione, 3-[[(1,2-dihydro-4-hydroxy-6-methyl-2-oxo-3-quinolinyl)methyleneamino]-, 2-hydrazone) (9CI) (CA INDEX NAME)



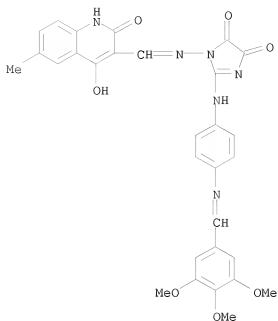
RN 169970-17-6 CAPLUS
 CN 4,5-Imidazolidinedione, 1-[[[(1,2-dihydro-4-hydroxy-6-methyl-2-oxo-3-quinolinyl)methylene]amino]-2-thioxo- (CA INDEX NAME)



RN 169970-19-8 CAPLUS
 CN 1H-Imidazole-4,5-dione, 1-[[[(1,2-dihydro-4-hydroxy-6-methyl-2-oxo-3-quinolinyl)methylene]amino]-2-[(1-methylpropyl)amino]- (CA INDEX NAME)

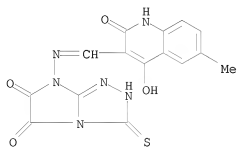


RN 169970-20-1 CAPLUS
 CN 1H-Imidazole-4,5-dione, 1-[[[(1,2-dihydro-4-hydroxy-6-methyl-2-oxo-3-quinolinyl)methylene]amino]-2-[[4-[[[(3,4,5-trimethoxyphenyl)methylene]amino]phenyl]amino]- (CA INDEX NAME)



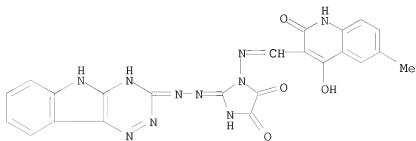
RN 169970-22-3 CAPLUS

CN 3H-imidazo[2,1-c]-1,2,4-triazole-5,6-dione, 7-[[[(1,2-dihydro-4-hydroxy-6-methyl-2-oxo-3-quinolinyl)methylene]amino]-2,7-dihydro-3-thioxo- (CA INDEX NAME)



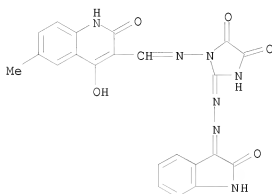
RN 169970-23-4 CAPLUS

CN Imidazolidinetrione, [[[(1,2-dihydro-4-hydroxy-6-methyl-2-oxo-3-quinolinyl)methylene]amino]-, 2-(2H-1,2,4-triazino[5,6-b]indol-3-ylhydrazone) (9CI) (CA INDEX NAME)



RN 169970-24-5 CAPLUS

CN Imidazolidinetrione, [[(1,2-dihydro-4-hydroxy-6-methyl-2-oxo-3-quinolinyl)methylene]amino]-, 2-[(1,2-dihydro-2-oxo-3H-indol-3-ylidene)hydrazono] (9CI) (CA INDEX NAME)



L28 ANSWER 108 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1995:347986 CAPLUS

DOCUMENT NUMBER: 122:176971

TITLE: Metal complexes of a Schiff base derived from

6-methyl-3-formyl-4-hydroxy-2-(1H)-quinolone and

ethanolamine. Part I

AUTHOR(S): Khalil, Saied M. E.

CORPORATE SOURCE: Dept. Chem., Ain-Shams Univ., Cairo, Egypt

SOURCE: Synthesis and Reactivity in Inorganic and
Metal-Organic Chemistry (1995), 25(1), 71-84

CODEN: SRIMCN; ISSN: 0094-5714

PUBLISHER: Dekker

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The reaction of the terdentate dibasic Schiff base ligand, derived from 6-methyl-3-formyl-4-hydroxy-2-(1H)-quinolone and ethanolamine, with metal salts of Cu, Ni, Mn, Co, Zn, Cd, V, U, Fe, and Th yielded monomeric and dimeric products depending on the metal:ligand ratio, the metal cations used and their counteranions. The ligand is either terdentate and monobasic or dibasic, but in some cases it behaves as a bidentate monobasic ligand. The dimeric products were bridged through either Cl, acetate or sulfate groups, or the phenolic or alc. O of the ligand. Both Cu and Ni chlorides yielded similar complexes while the acetate analogs yielded different products. The complexes were studied by IR and visible spectroscopy, and by measurements of magnetic moments and mol. wts.

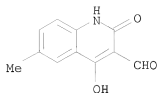
IT 156992-48-2, 3-Formyl-4-hydroxy-6-methyl-2-(1H)-quinolone

RL: RCT (Reactant); RACT (Reactant or reagent)

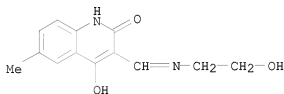
(for preparation of Schiff base with ethanolamine and transition metal Schiff base complexes)

RN 156992-48-2 CAPLUS

CN 3-Quinolonecarboxaldehyde, 1,2-dihydro-4-hydroxy-6-methyl-2-oxo- (CA INDEX NAME)



IT 161374-48-7DP, transition metal complexes
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (for preparation of transition metal complexes)
 RN 161374-48-7 CAPLUS
 CN 2(1H)-Quinolone, 4-hydroxy-3-[[2-hydroxyethyl]imino]methyl]-6-methyl-
 (CA INDEX NAME)



L28 ANSWER 109 OF 231 CAPLUS COPYRIGHT 2008 ACS ON STN

ACCESSION NUMBER: 1995:297150 CAPLUS

DOCUMENT NUMBER: 122:160601

TITLE: Synthesis and biological activity of some
 3-heterocyclyl-4-hydroxy-6-methyl-2 (1H)-quinolones
 AUTHOR(S): Mohamed, E. A.; Ismail, M. M.; Gabr, Y.; Farrag, H. A.
 CORPORATE SOURCE: Faculty Education, Ain Shams Univ., Cairo, Egypt
 SOURCE: Indian Journal of Chemistry, Section B: Organic
 Chemistry Including Medicinal Chemistry (1995),
 34B(1), 21-6

CODEN: IJSBDB; ISSN: 0376-4699

PUBLISHER: Publications & Information Directorate, CSIR

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 122:160601

AB Schiff bases derived from 4-hydroxy-6-methyl-2(1H)-quinolone, have been
 synthesized and allowed to undergo addition of HCN, thiosalicylic acid,
 thioglycolic acid and HBr. The bromo function of the HBr adduct is
 susceptible to substitution by different reagents containing nitrogen and/or
 sulfur, the products of which are cyclized to different heterocyclic
 systems, viz. 1,3-benzothiazinone, 1,3-thiazolidinone,
 perhydro-1,2,4-triazine, s-triazolidine, imidazoline and
 triazolidinotriazolidine, as substituents at position-3 of
 4-hydroxy-6-methyl-2(1H)-quinolone. Some of the newly synthesized compds.
 are found to be biol. active towards some gram neg. and gram pos. bacteria
 as well as against yeast.

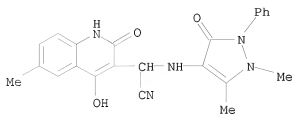
IT 161152-08-5P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological
 study, unclassified); SPN (Synthetic preparation); BIOL (Biological
 study); PREP (Preparation)
 (preparation of)

RN 161152-08-5 CAPLUS

CN 3-Quinoloneacetonitrile, α -[(2,3-dihydro-1,5-dimethyl-3-oxo-2-phenyl-

1H-pyrazol-4-yl)amino]-1,2-dihydro-4-hydroxy-6-methyl-2-oxo- (CA INDEX NAME)

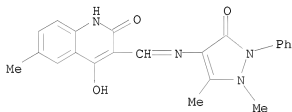


IT 161152-07-4P 161152-13-2P 161152-18-7P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent) (synthesis and biol. activity of some heterocyclyl(hydroxy)methylquinolones)

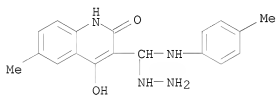
RN 161152-07-4 CAPLUS

CN 2(1H)-Quinolinone, 3-[[(2,3-dihydro-1,5-dimethyl-3-oxo-2-phenyl-1H-pyrazol-4-yl)imino]methyl]-4-hydroxy-6-methyl- (CA INDEX NAME)



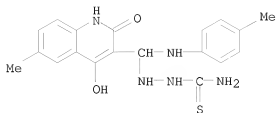
RN 161152-13-2 CAPLUS

CN 2(1H)-Quinolinone, 3-[hydrazino[(4-methylphenyl)amino]methyl]-4-hydroxy-6-methyl- (9CI) (CA INDEX NAME)

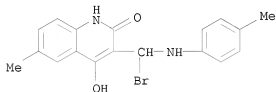


RN 161152-18-7 CAPLUS

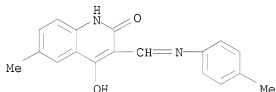
CN Hydrazinecarbothioamide, 2-[(1,2-dihydro-4-hydroxy-6-methyl-2-oxo-3-quinolinyl)[(4-methylphenyl)amino]methyl]- (CA INDEX NAME)



IT 161152-11-0P 161152-26-7P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (synthesis and biol. activity of some heterocyclyl(hydroxy)methylquinol
 ones)
 RN 161152-11-0 CAPLUS
 CN 2(1H)-Quinolinone, 3-[bromo[(4-methylphenyl)amino]methyl]-4-hydroxy-6-
 methyl- (CA INDEX NAME)



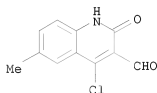
RN 161152-26-7 CAPLUS
 CN 2(1H)-Quinolinone, 4-hydroxy-6-methyl-3-[[4-(4-methylphenyl)imino]methyl]-
 (CA INDEX NAME)



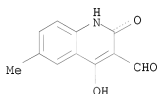
L28 ANSWER 110 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1995:269682 CAPLUS
 DOCUMENT NUMBER: 122:160611
 TITLE: Some more new quinolones of expected biological
 activity
 AUTHOR(S): Mohamed, E. A.; Ismail, M. M.; Gabr, Y.; Abass, M.
 CORPORATE SOURCE: Dep. Chem., Ain-Shams Univ., Cairo, Egypt
 SOURCE: Journal of the Serbian Chemical Society (1994),
 59(10), 715-26
 CODEN: JSCSEN; ISSN: 0352-5139
 PUBLISHER: Serbian Chemical Society
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB Quinolone derivs. were prepared from 4-hydroxy-6-methyl-2(1H)quinolone.
 Among these prepared quinolones are the nitro, nitroso and the azo derivs.,
 whose reduction gives 3-amino-2-quinolone, an amino compound that can be
 cyclized to oxazoloquinolone, which may have medicinal application (no

data). Some sulfonamides, bissulfide and sulfenium salts, derived from 4-hydroxy-6-methyl-2(1H)quinolone (having expected biol. activities) were prepared. The bromination and chlorination of 4-hydroxy-6-methyl-2(1H)quinolone were studied under different conditions. Some heterocycles (pyran and pyrazole) fused to quinolone having expected pharmaceutical importance, were synthesized.

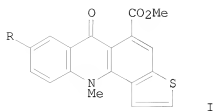
IT 156992-52-8P, 3-Quinolonecarboxaldehyde, 4-chloro-1,2-dihydro-6-methyl-2-oxo
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of)
 RN 156992-52-8 CAPLUS
 CN 3-Quinolonecarboxaldehyde, 4-chloro-1,2-dihydro-6-methyl-2-oxo- (CA INDEX NAME)



IT 156992-48-2P, 3-Quinolonecarboxaldehyde, 1,2-dihydro-4-hydroxy-6-methyl-2-oxo
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of (hydroxy)methyl-2(1H)quinolone derivs.)
 RN 156992-48-2 CAPLUS
 CN 3-Quinolonecarboxaldehyde, 1,2-dihydro-4-hydroxy-6-methyl-2-oxo- (CA INDEX NAME)



L28 ANSWER 111 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1995:132025 CAPLUS
 DOCUMENT NUMBER: 122:55918
 ORIGINAL REFERENCE NO.: 122:10838h,10839a
 TITLE: Synthesis of 5-methoxycarbonyl-11-methylthieno[2,3-c]acridan-6(11H)-ones
 AUTHOR(S): Suresh, J. R.; Jayabalan, L.; Shanmugam, P.
 CORPORATE SOURCE: Dep. Chem., Bharathiar Univ., Coimbatore, 641 046, India
 SOURCE: Sulfur Letters (1993), 17(1), 7-14
 CODEN: SULED2; ISSN: 0278-6117
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI

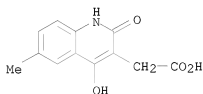


AB The title compds. I (R = H, Me, Br) have been synthesized photochem. from 1-methyl-2-chloro-3-(1-methoxycarbonyl-2-thien-2-ylethenyl)quinolin-4(1H)-ones. The precursors are obtained from 4-hydroxy-2-quinolinone-3-acetic acids.

IT 157192-23-9
RL: RCT (Reactant); RACT (Reactant or reagent)
(synthesis of thienoacridanone derivs.)

RN 157192-23-9 CAPLUS

CN 3-Quinolineacetic acid, 1,2-dihydro-4-hydroxy-6-methyl-2-oxo- (CA INDEX NAME)



L28 ANSWER 112 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1994:655694 CAPLUS

DOCUMENT NUMBER: 121:255694

ORIGINAL REFERENCE NO.: 121:46679a, 46682a

TITLE: Synthesis and utilization of 3-(2'-hydroxyethyl)quinolin-2(1H)-ones. Part-II
Rajendran, S. P.; Shanmugam, P.

AUTHOR(S): Dept. Chem., Bharathiar Univ., Coimbatore, 641 046,
India

CORPORATE SOURCE: Journal of the Indian Chemical Society (1993), 70(10),
815-18

SOURCE: CODEN: JICSAH; ISSN: 0019-4522

DOCUMENT TYPE: Journal

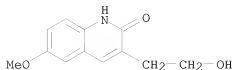
LANGUAGE: English

AB Several 3-(2'-hydroxyethyl)quinolin-2(1H)-ones were prepared by the photolysis of N-aryl-4,5-dihydrofuran-3-carboxamides. These compds. were converted to 2,3-dihydrofuro[2,3-b]quinolines.

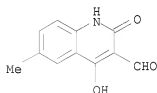
IT 62480-48-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and reactions of (hydroxyethyl)quinolinones)

RN 62480-48-2 CAPLUS

CN 2(1H)-Quinolinone, 3-(2-hydroxyethyl)-6-methoxy- (CA INDEX NAME)

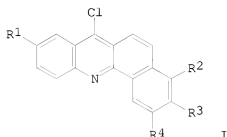


L28 ANSWER 113 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1994:644201 CAPLUS
 DOCUMENT NUMBER: 121:244201
 ORIGINAL REFERENCE NO.: 121:44293a,44296a
 TITLE: Metal complexes of Schiff base ligands derived from 4-hydroxy-2-(1H)quinolone and ethylenediamine or 1,2-propylenediamine: Part II
 AUTHOR(S): Khalil, Saied M. E.
 CORPORATE SOURCE: Faculty of Education, Ain-Shams University, Cairo, Egypt
 SOURCE: Indian Journal of Chemistry, Section A: Inorganic, Bio-inorganic, Physical, Theoretical & Analytical Chemistry (1994), 33A(9), 830-6
 CODEN: ICACEC; ISSN: 0376-4710
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB New Schiff base ligands derived from 3-formyl-4-hydroxy-6-methyl-2-(1H)quinolone and ethylenediamine or 1,2-propylenediamine were prepared and reacted with Ni, Cu, uranyl, vanadyl, and Fe salts to get mononuclear and dinuclear complexes. The ligands behave either as tetradentate dibasic or as bidentate mono- or di-basic ligands. A variety of structures are indicated for the products by their visible and IR spectra, and magnetic measurements. Different products are obtained in similar reactions of the two ligands with the same metal salts which is attributed to the effect of the extra Me group in the latter ligand. Also, different complexes are obtained for the same ligand and the same metal salt using different solvent media. Besides, the variation of the counteranion of the metal salt also leads to different products.
 IT 156992-48-2, 3-Formyl-4-hydroxy-6-methyl-2-(1H)quinolone
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (for preparation of Schiff bases with diamines)
 RN 156992-48-2 CAPLUS
 CN 3-Quinolonecarboxaldehyde, 1,2-dihydro-4-hydroxy-6-methyl-2-oxo- (CA INDEX NAME)

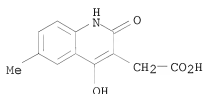


L28 ANSWER 114 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1994:533931 CAPLUS
 DOCUMENT NUMBER: 121:133931
 ORIGINAL REFERENCE NO.: 121:24209a,24212a
 TITLE: A photochemical synthesis of benzo[c]acridines
 AUTHOR(S): Suresh, J. R.; Jayabalan, L.; Shanmugam, P.
 CORPORATE SOURCE: Dep. Chem., Bharathiar Univ., Coimbatore, 641 046,

SOURCE: India
 Indian Journal of Chemistry, Section B: Organic
 Chemistry Including Medicinal Chemistry (1994),
 33B(1), 79-84
 CODEN: IJSBDB; ISSN: 0376-4699
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 121:133931
 GI



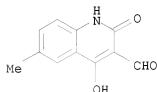
AB A photochem. preparation of several derivs. of benzo[c]acridines I (R1 = H, Me, Br; R2 = H, Cl, OMe; R3, R4 = H, OMe) using substituted 3-styryl-4-quinolinones as precursors is described. The precursors are obtained by condensation of 4-hydroxy-2-quinolinone-3-acetic acids with benzaldehydes.
 IT 157192-23-9P, 1,2-Dihydro-4-hydroxy-6-methyl-2-oxo-3-Quinolineacetic acid
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of, as intermediate for benzo[c]acridine)
 RN 157192-23-9 CAPLUS
 CN 3-Quinolineacetic acid, 1,2-dihydro-4-hydroxy-6-methyl-2-oxo- (CA INDEX NAME)



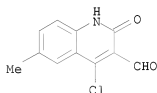
L28 ANSWER 115 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1994:533921 CAPLUS
 DOCUMENT NUMBER: 121:133921
 ORIGINAL REFERENCE NO.: 121:24209a,24212a
 TITLE: Synthesis of substituted quinolones
 AUTHOR(S): Mohamed, E.A.; Ismail, M.M.; Gabr, Y.; Abass, M.
 CORPORATE SOURCE: Fac. Educ., Ain-Shams Univ., Cairo, Egypt
 SOURCE: Indian Journal of Heterocyclic Chemistry (1993), 3(2), 69-80
 CODEN: IJCHEI; ISSN: 0971-1627
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB 4-Hydroxy-6-methyl-2(1H)quinolone (1) has been used to prepare a number of quinolones. Thus, 1 has been nitrated, nitrosated and coupled with

diazotized anilines to yield products which were reduced to give
3-amino-4-hydroxy-6-methyl-2(1H)quinolone.

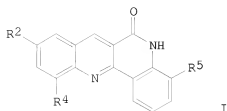
IT 156992-48-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(preparation and oxidation of)
RN 156992-48-2 CAPLUS
CN 3-Quinolonecarboxaldehyde, 1,2-dihydro-4-hydroxy-6-methyl-2-oxo- (CA
INDEX NAME)



IT 156992-52-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(preparation and reaction with hydrazine)
RN 156992-52-8 CAPLUS
CN 3-Quinolonecarboxaldehyde, 4-chloro-1,2-dihydro-6-methyl-2-oxo- (CA INDEX
NAME)



L28 ANSWER 116 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1994:244979 CAPLUS
DOCUMENT NUMBER: 120:244979
ORIGINAL REFERENCE NO.: 120:43429a,43432a
TITLE: Synthesis of dibenzo[b,h][1,6]naphthyridin-6(5H)-ones
AUTHOR(S): Vijayalakshmi, S.; Rajendran, S. P.
CORPORATE SOURCE: Dep. Chem., Bharathiar Univ., Coimbatore, 641 046,
Ire.
SOURCE: Indian Journal of Chemistry, Section B: Organic
Chemistry Including Medicinal Chemistry (1994),
33B(2), 159-62
CODEN: IJSBDB; ISSN: 0376-4699
DOCUMENT TYPE: Journal
LANGUAGE: English
GI

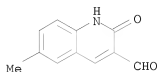


AB Substituted dibenzo[b,h][1,6]naphthyridin-6(5H)-ones I (R2, R4 = H, Me; R5 = H, Cl, MeO) were prepared by treating various 2-oxoquinoline-3-carboxanilides with polyphosphoric acid. The precursors were readily obtained by the condensation of 2-quinoline-3-carboxylic acids with amines.

IT 101382-53-0 123990-78-3
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (reactant dibenzo[b,h][1,6]naphthyridinone)

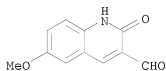
RN 101382-53-0 CAPLUS

CN 3-Quinolinecarboxaldehyde, 1,2-dihydro-6-methyl-2-oxo- (CA INDEX NAME)



RN 123990-78-3 CAPLUS

CN 3-Quinolinecarboxaldehyde, 1,2-dihydro-6-methoxy-2-oxo- (CA INDEX NAME)



L28 ANSWER 117 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1994:106966 CAPLUS

DOCUMENT NUMBER: 120:106966

ORIGINAL REFERENCE NO.: 120:18877a,18880a

TITLE: Styrylbenzodiazinones. 2. Chromo- and fluoroionophores derived from monoaza-15-crown-5. Synthesis and structure

AUTHOR(S): Cazaux, Louis; Faher, Mourad; Picard, Claude; Tisnes, Pierre

CORPORATE SOURCE: Cent. Natl. de la Teacher. Sci., Univ. Paul Sabatier, Toulouse, 31062, Fr.

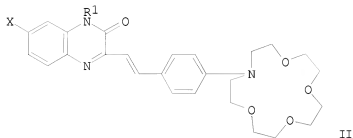
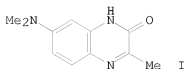
SOURCE: Canadian Journal of Chemistry (1993), 71(8), 1236-46
 CODEN: CJCHAG; ISSN: 0008-4042

DOCUMENT TYPE: Journal

LANGUAGE: French

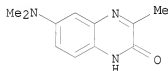
OTHER SOURCE(S): CASREACT 120:106966

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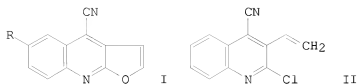


AB 1,4-Benzodiazin-2-one I and two chromo- and fluoroionophores (II; X = H, R1 = Me; X = Me2N, R1 = H) were prepared. A structural study of these compds. by 1H and 13C NMR, UV spectrophotometry, and mol. modeling was carried out. Unlike styrylbenzoxazinones, styrylbenzodiazinone derivs. showed a Z/E isomerization in acetonitrile solution. The isomerization was photoinduced, was catalyzed by metal ions, and was a reversible process. An efficient alkylation reaction of the lactam function of benzodiazinones was described.

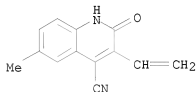
IT 152580-63-7P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation, spectra and methylation of)
 RN 152580-63-7 CAPLUS
 CN 2(1H)-Quinoxalinone, 6-(dimethylamino)-3-methyl- (CA INDEX NAME)



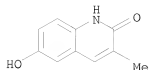
L28 ANSWER 118 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1993:671044 CAPLUS
 DOCUMENT NUMBER: 119:271044
 ORIGINAL REFERENCE NO.: 119:48501a,48504a
 TITLE: Synthesis of 4-cyanofuro[2,3-b]quinolines
 AUTHOR(S): Rajamanickam, P.; Shanmugam, P.
 CORPORATE SOURCE: Dep. Chem., Bharathiar Univ., Coimbatore, 641 046,
 India
 SOURCE: Zeitschrift fuer Naturforschung, B: Chemical Sciences
 (1993), 48(4), 517-20
 CODEN: ZNBSEN; ISSN: 0932-0776
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 119:271044
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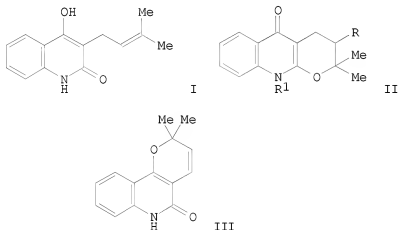
AB 4-Cyanofuro[2,3-b]quinolines I (R= H, Me, Cl, Br) were prepared by
 bromination-cyclization of the 2-chloro-4-cyano-3-vinylquinolines II.
 IT 151091-24-6P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (preparation and bromination-cyclization of)
 RN 151091-24-6 CAPLUS
 CN 4-Quinolines carbonitrile, 3-ethenyl-1,2-dihydro-6-methyl-2-oxo- (CA INDEX
 NAME)



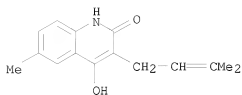
L28 ANSWER 119 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1993:424359 CAPLUS
 DOCUMENT NUMBER: 119:24359
 ORIGINAL REFERENCE NO.: 119:4441a,4444a
 TITLE: Microbial metabolism of quinoline and related
 compounds. XVII. Degradation of 3-methylquinoline by
 Comamonas testosteroni 63
 AUTHOR(S): Schach, Susanne; Schwarz, Gerhild; Fetzner, Susanne;
 Lingens, Franz
 CORPORATE SOURCE: Inst. Mikrobiol., Univ. Hohenheim, Stuttgart,
 W-7000/70, Germany
 SOURCE: Biological Chemistry Hoppe-Seyler (1993), 374(3),
 175-81
 CODEN: BCHSEI; ISSN: 0177-3593
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB A bacterial strain which utilizes 3-methylquinoline as sole source of
 carbon, nitrogen and energy was isolated from activated sludge. On the
 basis of its morphol. and physiol. characteristics, this isolate was
 classified as C. testosteroni. Four metabolites of 3-methylquinoline
 degradation were isolated from the culture supernatant and identified as
 3-methyl-2-oxo-1,2-dihydroquinoline, 6-hydroxy-3-methyl-2-
 oxodihydroquinoline, 5,6-dihydroxy-3-methyl-2-oxo-1,2-dihydroquinoline and
 2,5,6-trihydroxy-3-methylpyridine. Based on these results, a degradation
 pathway for 3-methylquinoline is proposed.
 IT 148337-03-5
 RL: FORM (Formation, nonpreparative)
 (formation of, from methylquinoline by Comamonas testosteroni)
 RN 148337-03-5 CAPLUS
 CN 2(1H)-Quinolone, 6-hydroxy-3-methyl- (CA INDEX NAME)



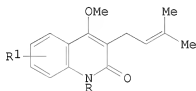
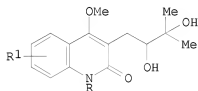
L28 ANSWER 120 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1992:634305 CAPLUS
 DOCUMENT NUMBER: 117:234305
 ORIGINAL REFERENCE NO.: 117:40539a,40542a
 TITLE: Quinoline alkaloids. Synthesis of khaplofoline, ribalinine, and flindersine
 AUTHOR(S): Subramanian, M.; Mohan, P. S.; Shanmugam, P.; Prasad, K. J. Rajendra
 CORPORATE SOURCE: Dep. Chem., Bharathiar Univ., Coimbatore, 641 046, India
 SOURCE: Zeitschrift fuer Naturforschung, B: Chemical Sciences (1992), 47(7), 1016-20
 CODEN: ZNBSEN; ISSN: 0932-0776
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 117:234305
 GI



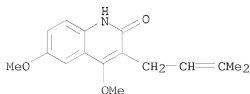
AB Reaction of 4-hydroxy-3-prenylquinolin-2(1H)-one (I) with iodine and silver acetate gave iodopyranoquinoline II (R = iodo, R1 = H), which was then converted into the alkaloids khaplofoline (II, R = R1 = H), and ribalinine (II, R = OH; R1 = Me). Reaction of I with iodine and mercuric oxide afforded a mixture of II (R = iodo, R1 = H) and its angular isomer; the conversion of the latter into flindersine (III) is described.
 IT 99822-04-5P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and intramol. cyclization of)
 RN 99822-04-5 CAPLUS
 CN 2(1H)-Quinolinone, 4-hydroxy-6-methyl-3-(3-methyl-2-butenyl)- (9CI) (CA INDEX NAME)



L28 ANSWER 121 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1992:41269 CAPLUS
 DOCUMENT NUMBER: 116:41269
 ORIGINAL REFERENCE NO.: 116:7077a,7080a
 TITLE: Synthesis of (±)-eduline analogs
 AUTHOR(S): Qian, L. G.; Gu, K. J.; Ji, R. Y.
 CORPORATE SOURCE: Shanghai Inst. Mater. Med., Acad. Sin., Shanghai, 200031, Peop. Rep. China
 SOURCE: Yaoxue Xuebao (1991), 26(8), 572-7
 CODEN: YHHPAL; ISSN: 0513-4870
 DOCUMENT TYPE: Journal
 LANGUAGE: Chinese
 GI

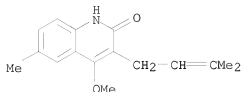


AB Title compds. I (R = H, Me; R1 = H, Br, Cl, F, Me, MeO) were prepared in 90-98% yield by refluxing alkenes II with 0.7% aqueous OsO₄, trimethylamine N-oxide dihydrate, and pyridine in THF for 7-9 h. I showed anticonvulsant activity.
 IT 123348-67-4P 138193-20-1P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and oxidation of)
 RN 123348-67-4 CAPLUS
 CN 2(1H)-Quinolinone, 4,6-dimethoxy-3-(3-methyl-2-butenyl)- (9CI) (CA INDEX NAME)

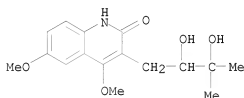


RN 138193-20-1 CAPLUS
 CN 2(1H)-Quinolinone, 4-methoxy-6-methyl-3-(3-methyl-2-butenyl)- (9CI) (CA

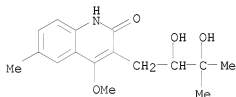
INDEX NAME)



IT 138193-30-3P 138193-31-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 138193-30-3 CAPLUS
CN 2(1H)-Quinolinone, 3-(2,3-dihydroxy-3-methylbutyl)-4,6-dimethoxy- (CA INDEX NAME)



RN 138193-31-4 CAPLUS
CN 2(1H)-Quinolinone, 3-(2,3-dihydroxy-3-methylbutyl)-4-methoxy-6-methyl- (CA INDEX NAME)



L28 ANSWER 122 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1992:20513 CAPLUS
DOCUMENT NUMBER: 116:20513
ORIGINAL REFERENCE NO.: 116:3615a,3618a
TITLE: HPTLC for monitoring kinetics of the synthesis of quinoxaline derivatives
AUTHOR(S): Fernandez, Beatriz M.; Ines Abasolo, Maria
CORPORATE SOURCE: Fac. Pharm. Biochem., Univ. Buenos Aires, Buenos Aires, Argent.
SOURCE: Journal of Planar Chromatography--Modern TLC (1990), 3(1-2), 20-3
CODEN: JPCTE5; ISSN: 0933-4173
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 116:20513
AB HPTLC is a useful technique to monitor kinetics of an organic reaction when other methods, such as directed UV spectrophotometry or HPLC, fail or when adequate software is not available. The synthesis of 6- and 7-substituted

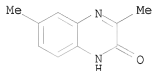
3-methylquinoxalin-2(1H)-ones was followed by HPTLC. This technique allowed us to sep. and identify open intermediates and final products of this annulation reaction, and to maintain all the equilibrium at steady state. HPTLC expts. assisted us to efficiently calculate rate consts. of the reaction, and to propose its possible mechanism, which we previously reported.

IT 28082-84-0P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 28082-84-0 CAPLUS

CN 2(1H)-Quinoxalinone, 3,6-dimethyl- (CA INDEX NAME)



L28 ANSWER 123 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1991:631920 CAPLUS

Correction of: 1991:61746

DOCUMENT NUMBER: 115:231920

Correction of: 114:61746

ORIGINAL REFERENCE NO.: 115:39513a,39516a

TITLE: Proton NMR spectra of 7β-(6-substituted-2-

quinolone-3-acetamido)- and 7β-(6-substituted-4-

hydroxyquinoline-3-formamido)-cephalosporins

Chen, Qingping; Duan, Tinghan; Zhou, Huishu

CORPORATE SOURCE: Dep. Pharm. Chem., China Pharm. Univ., Nanjing, Peop. Rep. China

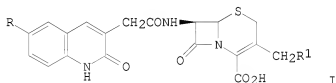
SOURCE: Zhongguo Kangshengsu Zazhi (1990), 15(1), 20-6

CODEN: ZKZAEY; ISSN: 1001-8689

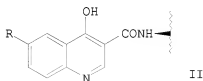
DOCUMENT TYPE: Journal

LANGUAGE: English

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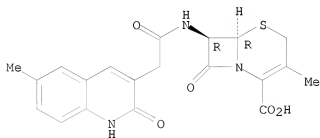


II

AB 1H-NMR spectra are reported for cephalosporins I (R = H, Cl, Me, OMe; R1 = H, OAc, 1-methyl-5-tetrazolylthio, 5-methyl-1,3,4-thiadiazol-2-ylthio) and II (R = NO2, R1 = H; R = Cl, R1 = OAc; R = Me, R1 = 1-methyl-5-tetrazolylthio; R = OMe, R1 = 5-methyl-1,3,4-thiadiazol-2-ylthio).

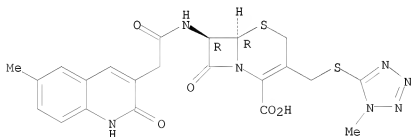
IT 121087-47-6 121087-48-7 121087-49-8
 121087-50-1 121087-51-2 121087-52-3
 121087-53-4 121099-48-7
 RL: PRP (Properties)
 (NMR of)
 RN 121087-47-6 CAPLUS
 CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid,
 7-[[[(1,2-dihydro-6-methyl-2-oxo-3-quinolinyl)acetyl]amino]-3-methyl-8-oxo-
 , (6R-trans)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



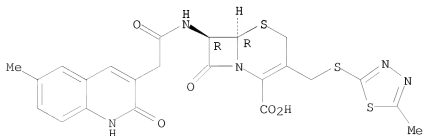
RN 121087-48-7 CAPLUS
 CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid,
 7-[[[(1,2-dihydro-6-methyl-2-oxo-3-quinolinyl)acetyl]amino]-3-[[[(1-methyl-
 1H-tetrazol-5-yl)thio]methyl]-8-oxo-, (6R-trans)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



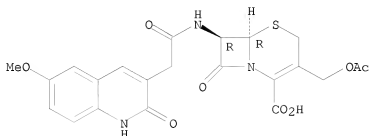
RN 121087-49-8 CAPLUS
 CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid,
 7-[[[(1,2-dihydro-6-methyl-2-oxo-3-quinolinyl)acetyl]amino]-3-[[[(5-methyl-
 1,3,4-thiadiazol-2-yl)thio]methyl]-8-oxo-, (6R-trans)- (9CI) (CA INDEX
 NAME)

Absolute stereochemistry.



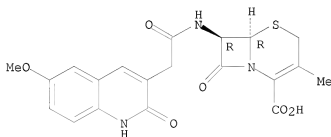
RN 121087-50-1 CAPLUS
 CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid,
 3-[(acetyloxy)methyl]-7-[[[(1,2-dihydro-6-methoxy-2-oxo-3-
 quinolinyl)acetyl]amino]-8-oxo-, (6R-trans)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



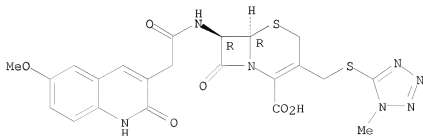
RN 121087-51-2 CAPLUS
 CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid,
 7-[[[(1,2-dihydro-6-methoxy-2-oxo-3-quinolinyl)acetyl]amino]-3-methyl-8-oxo-
 , (6R-trans)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 121087-52-3 CAPLUS
 CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid,
 7-[[[(1,2-dihydro-6-methoxy-2-oxo-3-quinolinyl)acetyl]amino]-3-[(1-methyl-
 1H-tetrazol-5-yl)thio]methyl]-8-oxo-, (6R-trans)- (9CI) (CA INDEX NAME)

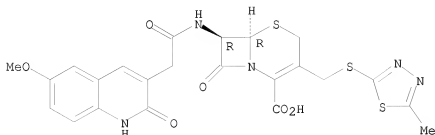
Absolute stereochemistry.



RN 121087-53-4 CAPLUS
 CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid,
 7-[[[(1,2-dihydro-6-methoxy-2-oxo-3-quinolinyl)acetyl]amino]-3-[(5-methyl-
 1,3,4-thiadiazol-2-yl)thio]methyl]-8-oxo-, (6R-trans)- (9CI) (CA INDEX NAME)

NAME)

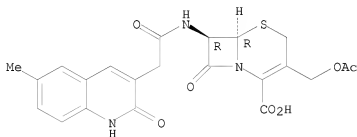
Absolute stereochemistry.



RN 121099-48-7 CAPLUS

CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid,
3-[(acetyloxy)methyl]-7-[[[(1,2-dihydro-6-methyl-2-oxo-3-quinolinyl)acetyl]amino]-8-oxo-, (6R-trans)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L28 ANSWER 124 OF 231 CAPLUS COPYRIGHT 2008 ACS ON STN

ACCESSION NUMBER: 1991:589578 CAPLUS
Correction of: 1990:83945

DOCUMENT NUMBER: 115:189578
Correction of: 112:83945

ORIGINAL REFERENCE NO.: 115:32273a,32276a

TITLE: Preparative separation of cephalosporins by
centrifugal TLC

AUTHOR(S): Chen, Qingping; Zhou, Jiacheng; Duan, Tinghan; Zhou, Huishu

CORPORATE SOURCE: Dep. Pharm. Chem., China Pharm. Univ., Nanjing, Peop. Rep. China

SOURCE: Zhongguo Kangshengsu Zazhi (1989), 14(3), 161-7

CODEN: ZKZAEY; ISSN: 1001-8689

DOCUMENT TYPE: Journal

LANGUAGE: Chinese

AB Synthetic cephalosporin products were isolated by centrifugal TLC. This separation technique is satisfactorily applied to the purification of 2 series of

cephalosporins. The operating conditions including preparation and reuse of coating layer, selection of the solvent, limit of separation quantity, separation

time, etc., were studied. Centrifugal TLC is a simple and very rapid technique for the preparative separation or purification of cephalosporins and

has the advantage of lower cost, less time and better availability. This

method is much more suitable for the separation and purification of unstable substances like cephalosporins.

IT 121087-47-6 121087-49-8 121087-50-1
121087-51-2 121087-52-3 121087-53-4
121099-48-7 125113-08-8

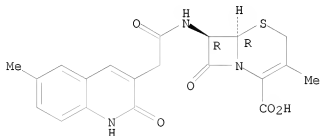
RL: PROC (Process)

(separation of, preparative, by centrifugal TLC)

RN 121087-47-6 CAPLUS

CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid,
7-[[[(1,2-dihydro-6-methyl-2-oxo-3-quinolinyl)acetyl]amino]-3-methyl-8-oxo-
, (6R-trans)- (9CI) (CA INDEX NAME)

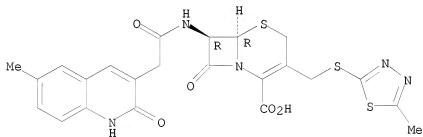
Absolute stereochemistry.



RN 121087-49-8 CAPLUS

CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid,
7-[[[(1,2-dihydro-6-methyl-2-oxo-3-quinolinyl)acetyl]amino]-3-[[[(5-methyl-
1,3,4-thiadiazol-2-yl)thio]methyl]-8-oxo-, (6R-trans)- (9CI) (CA INDEX
NAME)

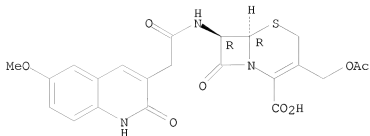
Absolute stereochemistry.



RN 121087-50-1 CAPLUS

CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid,
3-[(acetyloxy)methyl]-7-[[[(1,2-dihydro-6-methoxy-2-oxo-3-
quinolinyl)acetyl]amino]-8-oxo-, (6R-trans)- (9CI) (CA INDEX NAME)

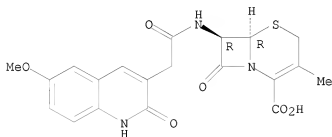
Absolute stereochemistry.



RN 121087-51-2 CAPLUS

CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid,
7-[[[(1,2-dihydro-6-methoxy-2-oxo-3-quinolinyl)acetyl]amino]-3-methyl-8-oxo-
, (6R-trans)- (9CI) (CA INDEX NAME)

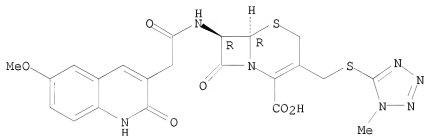
Absolute stereochemistry.



RN 121087-52-3 CAPLUS

CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid,
7-[[[(1,2-dihydro-6-methoxy-2-oxo-3-quinolinyl)acetyl]amino]-3-[[[(1-methyl-
1H-tetrazol-5-yl)thio]methyl]-8-oxo-, (6R-trans)- (9CI) (CA INDEX NAME)

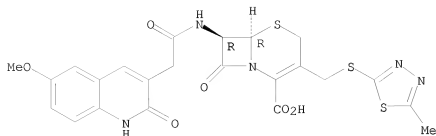
Absolute stereochemistry.



RN 121087-53-4 CAPLUS

CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid,
7-[[[(1,2-dihydro-6-methoxy-2-oxo-3-quinolinyl)acetyl]amino]-3-[[[(5-methyl-
1,3,4-thiadiazol-2-yl)thio]methyl]-8-oxo-, (6R-trans)- (9CI) (CA INDEX
NAME)

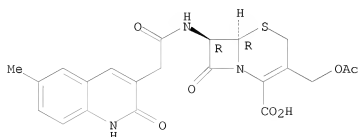
Absolute stereochemistry.



RN 121099-48-7 CAPLUS

CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid,
3-[(acetyloxy)methyl]-7-[[[(1,2-dihydro-6-methyl-2-oxo-3-
quinolinyl)acetyl]amino]-8-oxo-, (6R-trans)- (9CI) (CA INDEX NAME)

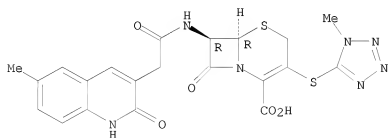
Absolute stereochemistry.



RN 125113-08-8 CAPLUS

CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid,
7-[[[(1,2-dihydro-6-methyl-2-oxo-3-quinolinyl)acetyl]amino]-3-[(1-methyl-1H-
tetrazol-5-yl)thio]-8-oxo-, (6R-trans)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L28 ANSWER 125 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1991:449356 CAPLUS

DOCUMENT NUMBER: 115:49356

ORIGINAL REFERENCE NO.: 115:8561a,8564a

TITLE: Heterocycles. Part 9. A convenient synthesis of
2-isopropylfuro[2,3-b]quinolines

AUTHOR(S): Subramanian, M.; Shanmugam, P.; Prasad, K. J. Rajendra
CORPORATE SOURCE: Dep. Chem., Bharathiar Univ., Coimbatore, 641 046,
India

SOURCE: Indian Journal of Chemistry, Section B: Organic

Chemistry Including Medicinal Chemistry (1991),
30B(4), 422-4

CODEN: IJSBDB; ISSN: 0376-4699

DOCUMENT TYPE:

Journal

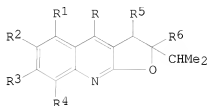
LANGUAGE:

English

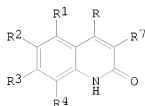
OTHER SOURCE(S):

CASREACT 115:49356

GI



I



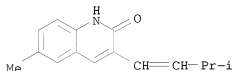
II

AB The title compds. I (R = 4-MeOC6H5, H, Ph, OMe; R1 = H, Me; R2 = H, Cl; R3R4 = CH:CHCH:CH; R3 = H, R4 = H, OMe; R5R6 = bond) were synthesized conveniently in good yields from 3-prenyl-2-quinolinones II (R7 = CH2CH:CHMe2) by treatment with HgO/iodine in the presence of AcOH. A similar reaction of II (R, R1, R2, R4 = H, Me, R3 = H, R7 = CH:CHCHMe2) with HgO/iodine in AcOH gives I (R5 = OAc, R6 = H; R5 = OH, R6 = H).

IT 82359-13-5
RL: RCT (Reactant); RACT (Reactant or reagent)
(cyclization of)

RN 82359-13-5 CAPLUS

CN 2(1H)-Quinolinone, 6-methyl-3-(3-methyl-1-butenyl)- (9CI) (CA INDEX NAME)



L28 ANSWER 126 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1991:192605 CAPLUS

DOCUMENT NUMBER: 114:192605

ORIGINAL REFERENCE NO.: 114:32353a,32356a

TITLE: Quinoxaline derivatives as blood platelet aggregation inhibitors

INVENTOR(S): Sumita, Yukio; Honda, Eiichi; Iwasaki, Masakazu; Ono, Masaru

PATENT ASSIGNEE(S): Toyo Jozo Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 23 pp.
CODEN: JKXXAF

DOCUMENT TYPE: Patent

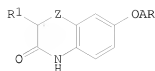
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

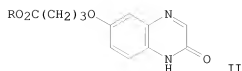
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 02221223	A	19900904	JP 1989-43614	19890223
PRIORITY APPLN. INFO.:			JP 1989-43614	19890223
OTHER SOURCE(S):	MARPAT	114:192605		

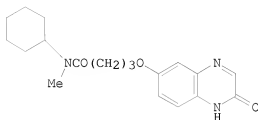
GI



I



II



III

AB Quinoxaline derivs. [I; R = CO₂H, alkoxycarbonyl, substituted carbamoyl, etc.; R₁ = H, C₁-20 alkyl, (substituted) Ph; A = alkylene; Z = N, NH; dotted line indicates saturated or unsatd. bond], useful as blood platelet aggregation inhibitors and/or cAMP phosphodiesterase inhibitors, are prepared and formulated. Saponification of ester II (R = Et) with 2N NaOH in

50% aqueous EtOH gave crude acid II (R = H), which was treated with pivaloyl chloride and Et₃N in DMF, followed by N-methylcyclohexylamine, to give 63% amide III. Stirring a solution of 4.0 g III in EtOH with an aqueous solution

of 15.44 g β-cyclodextrin at room temperature, concentration in vacuo, and in pulverization gave 17.2 g composition, which showed a solubility of 1.77 mg/mL

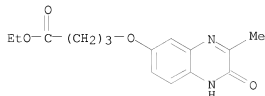
in H₂O, vs. 0.04 mg/mL for III alone. III showed 25.5, 71.5, and 91.0% inhibition of cAMP phosphodiesterase at 1, 10, and 100 mg/mL, resp.

IT 123224-71-5 123224-72-6 123224-73-7
123224-74-8 123224-81-7 123224-83-9
123224-84-0 123224-85-1 123224-86-2
123224-87-3 123224-89-5 123224-90-8
123224-91-9 123224-92-0 123224-93-1
123225-16-1 123225-17-2 123225-18-3
123225-19-4 123225-20-7 123225-21-8
123247-20-1 133569-26-3

RL: BIOL (Biological study)
(cAMP phosphodiesterase inhibitor containing)

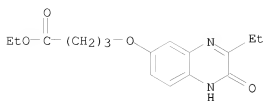
RN 123224-71-5 CAPLUS

CN Butanoic acid, 4-[(1,2-dihydro-3-methyl-2-oxo-6-quinoxalinyloxy)-, ethyl ester (CA INDEX NAME)



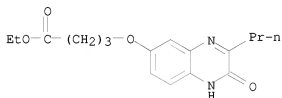
RN 123224-72-6 CAPLUS

CN Butanoic acid, 4-[(3-ethyl-1,2-dihydro-2-oxo-6-quinoxalinyloxy)-, ethyl ester (CA INDEX NAME)



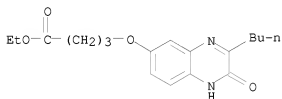
RN 123224-73-7 CAPLUS

CN Butanoic acid, 4-[(1,2-dihydro-2-oxo-3-propyl-6-quinoxalinyloxy]-, ethyl ester (CA INDEX NAME)



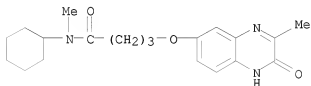
RN 123224-74-8 CAPLUS

CN Butanoic acid, 4-[(3-butyl-1,2-dihydro-2-oxo-6-quinoxalinyloxy]-, ethyl ester (CA INDEX NAME)



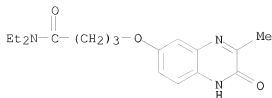
RN 123224-81-7 CAPLUS

CN Butanamide, N-cyclohexyl-4-[(1,2-dihydro-3-methyl-2-oxo-6-quinoxalinyloxy]-N-methyl- (CA INDEX NAME)



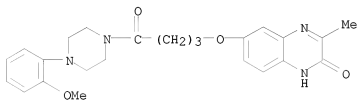
RN 123224-83-9 CAPLUS

CN Butanamide, 4-[(1,2-dihydro-3-methyl-2-oxo-6-quinoxalinyloxy]-N,N-diethyl- (CA INDEX NAME)



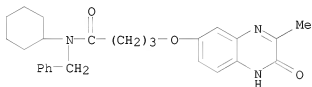
RN 123224-84-0 CAPLUS

CN Piperazine, 1-[4-[(1,2-dihydro-3-methyl-2-oxo-6-quinoxalinyloxy]-1-oxobutyl]-4-(2-methoxyphenyl)- (9CI) (CA INDEX NAME)



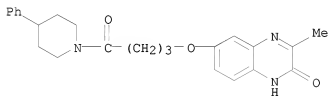
RN 123224-85-1 CAPLUS

CN Butanamide, N-cyclohexyl-4-[(1,2-dihydro-3-methyl-2-oxo-6-quinoxalinyloxy)-N-(phenylmethyl)- (CA INDEX NAME)



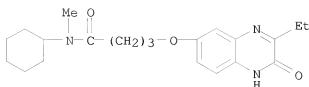
RN 123224-86-2 CAPLUS

CN Piperidine, 1-[4-[(1,2-dihydro-3-methyl-2-oxo-6-quinoxalinyloxy)-1-oxobutyl]-4-phenyl]- (9CI) (CA INDEX NAME)

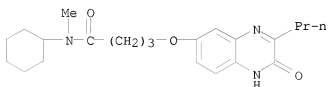


RN 123224-87-3 CAPLUS

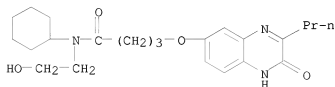
CN Butanamide, N-cyclohexyl-4-[(3-ethyl-1,2-dihydro-2-oxo-6-quinoxalinyloxy)-N-methyl]- (CA INDEX NAME)



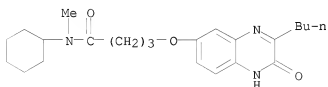
RN 123224-89-5 CAPLUS
 CN Butanamide, N-cyclohexyl-4-[(1,2-dihydro-2-oxo-3-propyl-6-quinoxalinyloxy)-N-methyl- (CA INDEX NAME)



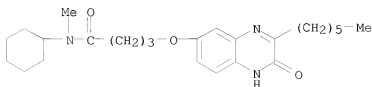
RN 123224-90-8 CAPLUS
 CN Butanamide, N-cyclohexyl-4-[(1,2-dihydro-2-oxo-3-propyl-6-quinoxalinyloxy)-N-(2-hydroxyethyl)- (CA INDEX NAME)



RN 123224-91-9 CAPLUS
 CN Butanamide, 4-[(3-butyl-1,2-dihydro-2-oxo-6-quinoxalinyloxy)-N-cyclohexyl-N-methyl- (CA INDEX NAME)

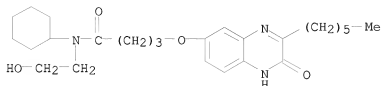


RN 123224-92-0 CAPLUS
 CN Butanamide, N-cyclohexyl-4-[(3-hexyl-1,2-dihydro-2-oxo-6-quinoxalinyloxy)-N-methyl- (CA INDEX NAME)

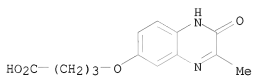


RN 123224-93-1 CAPLUS

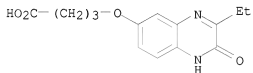
CN Butanamide, N-cyclohexyl-4-[(3-hexyl-1,2-dihydro-2-oxo-6-quinoxalinyloxy)-
N-(2-hydroxyethyl)- (CA INDEX NAME)



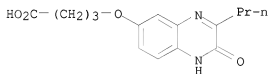
RN 123225-16-1 CAPLUS
CN Butanoic acid, 4-[(1,2-dihydro-3-methyl-2-oxo-6-quinoxalinyloxy)- (CA
INDEX NAME)



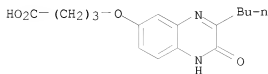
RN 123225-17-2 CAPLUS
CN Butanoic acid, 4-[(3-ethyl-1,2-dihydro-2-oxo-6-quinoxalinyloxy)- (CA
INDEX NAME)



RN 123225-18-3 CAPLUS
CN Butanoic acid, 4-[(1,2-dihydro-2-oxo-3-propyl-6-quinoxalinyloxy)- (CA
INDEX NAME)

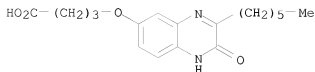


RN 123225-19-4 CAPLUS
CN Butanoic acid, 4-[(3-butyl-1,2-dihydro-2-oxo-6-quinoxalinyloxy)- (CA
INDEX NAME)



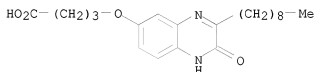
RN 123225-20-7 CAPLUS
CN Butanoic acid, 4-[(3-hexyl-1,2-dihydro-2-oxo-6-quinoxalinyloxy)- (CA

INDEX NAME)



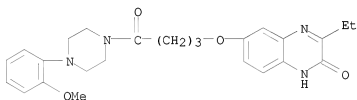
RN 123225-21-8 CAPLUS

CN Butanoic acid, 4-[(1,2-dihydro-3-nonyl-2-oxo-6-quinoxalinyloxy)]- (CA INDEX NAME)



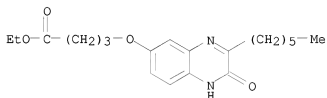
RN 123247-20-1 CAPLUS

CN Piperazine, 1-[4-[(3-ethyl-1,2-dihydro-2-oxo-6-quinoxalinyloxy)]-1-oxobutyl]-4-(2-methoxyphenyl)- (9CI) (CA INDEX NAME)



RN 133569-26-3 CAPLUS

CN Butanoic acid, 4-[(3-hexyl-1,2-dihydro-2-oxo-6-quinoxalinyloxy)]-, ethyl ester (CA INDEX NAME)



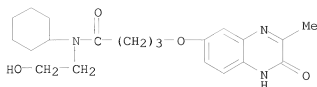
IT 123224-82-8P 123225-08-1P 123225-09-2P

RL: PREP (Preparation)

(preparation and blood platelet aggregation inhibitory activity of)

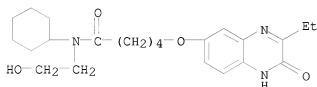
RN 123224-82-8 CAPLUS

CN Butanamide, N-cyclohexyl-4-[(1,2-dihydro-3-methyl-2-oxo-6-quinoxalinyloxy)]-N-(2-hydroxyethyl)- (CA INDEX NAME)



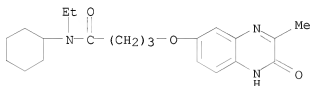
RN 123225-08-1 CAPLUS

CN Pentanamide, N-cyclohexyl-5-[(3-ethyl-1,2-dihydro-2-oxo-6-quinoxalinyloxy)-N-(2-hydroxyethyl)- (CA INDEX NAME)



RN 123225-09-2 CAPLUS

CN Butanamide, N-cyclohexyl-4-[(1,2-dihydro-3-methyl-2-oxo-6-quinoxalinyloxy)-N-ethyl- (CA INDEX NAME)



L28 ANSWER 127 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1991:143184 CAPLUS

DOCUMENT NUMBER: 114:143184

ORIGINAL REFERENCE NO.: 114:24293a, 24296a

TITLE: Studies on Vilsmeier-Haack reaction. A new route to 2-chloroquinoline-3-carboxyaldehydes and a furoquinoline derivative

AUTHOR(S): Pawar, R. A.; Bajare, P. B.; Mundade, S. B.

CORPORATE SOURCE: Dep. Chem., Dr. P. R. Ghogrey Sci. Coll., Dhule, 424 005, India

SOURCE: Journal of the Indian Chemical Society (1990), 67(8), 685-6

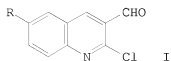
CODEN: JICSAH; ISSN: 0019-4522

DOCUMENT TYPE: Journal

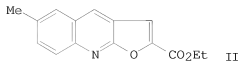
LANGUAGE: English

OTHER SOURCE(S): CASREACT 114:143184

GI

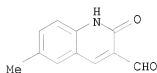


I



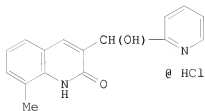
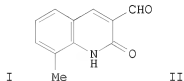
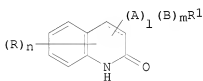
II

AB Quinolines I (R = H, Me, Br, OMe) were prepared via Vilsmeier-Haack reaction of p-RC₆H₄CMe:NOH. I (R = Me) was converted to furoquinoline II.
 IT 101382-53-0P, 3-Formyl-6-methylquinolin-2-one
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and enol alkylation of, with chloroacetate)
 RN 101382-53-0 CAPLUS
 CN 3-Quinolinedicarboxaldehyde, 1,2-dihydro-6-methyl-2-oxo- (CA INDEX NAME)



L28 ANSWER 128 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1991:81622 CAPLUS
 DOCUMENT NUMBER: 114:81622
 ORIGINAL REFERENCE NO.: 114:13929a, 13932a
 TITLE: Preparation of carbostyryl derivatives as inotropic cardiotonics and their formulations
 INVENTOR(S): Tanaka, Michinori; Tamada, Shigeharu; Tsutsui, Yoshinori; Ei, Kazuyoshi; Tominaga, Michiaki; Yabuchi, Yoichi
 PATENT ASSIGNEE(S): Otsuka Pharmaceutical Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 26 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 02229165	A	19900911	JP 1989-50584	19890302
PRIORITY APPLN. INFO.: OTHER SOURCE(S): GI	MARPAT	114:81622	JP 1989-50584	19890302



AB Carbostyryl derivs. [I; R = H, alkyl, alkoxy, (substituted) amino,

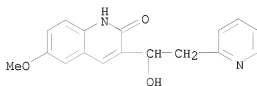
heterocyclyl, etc.; A = CH(OH), alkoxymethylene, acyloxymethylene, CH:CH, CO; B = alkylene; R1 = (substituted) pyridyl, piperidiny1, etc.; 1, m = 0, 1, n = 1, 2] are prepared BuLi in hexane was added to a solution of 10 g 2-bromopyridine in EtO at -30° to -20° with stirring, followed by 4.0 g aldehyde II in THF at -30° and aqueous NH4Cl to give 2.1 g salt III, which showed inotropic cardiotonic activity at 10-100 μmol in cats. Also prepared were 44 addnl. I.

IT 132070-29-2P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as inotropic cardiotonic agent)

RN 132070-29-2 CAPLUS

CN 2(1H)-Quinolinone, 3-[1-hydroxy-2-(2-pyridinyl)ethyl]-6-methoxy-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

L28 ANSWER 129 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1991:61746 CAPLUS

DOCUMENT NUMBER: 114:61746

ORIGINAL REFERENCE NO.: 114:10583a,10586a

TITLE: Proton NMR spectra of 7β-(6-substituted-2-quinolone-3-acetamido)- and 7β-(6-substituted-4-hydroxyquinoline-3-formamido)-cephalosporins
Chen, Qingping; Duan, Tinghan; Zhou, Huishu
Dep. Pharm. Chem., China Pharm. Univ., Nanjing, Peop. Rep. China

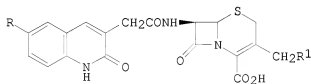
SOURCE: Kangshengsu (1990), 15(1), 20-6

CODEN: KANGDS; ISSN: 0254-6116

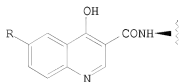
DOCUMENT TYPE: Journal

LANGUAGE: English

GI



I

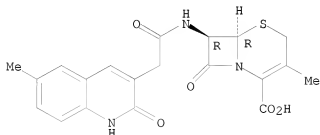


II

AB 1H-NMR spectra and reported for cephalosporins I (R = H, Cl, Me, OMe, R1 =

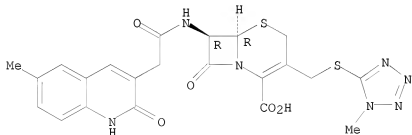
H, OAc, 1-methyl-5-tetrazolylthio, 5-methyl-1,3,4-thiadiazol-2-ylthio) and
 II (R = NO₂, R₁ = H; R = Cl, R₁ = OAc; R = Me, R₁ = 1-methyl-5-
 tetrazolylthio; R = OMe, R₁ = 5-methyl-1,3,4-thiadiazol-2-ylthio).
 IT 121087-47-6 121087-48-7 121087-49-8
 121087-50-1 121087-51-2 121087-52-3
 121087-53-4 121099-48-7
 RL: PRP (Properties)
 (NMR of)
 RN 121087-47-6 CAPLUS
 CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid,
 7-[[[(1,2-dihydro-6-methyl-2-oxo-3-quinolinyl)acetyl]amino]-3-methyl-8-oxo-
 , (6R-trans)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



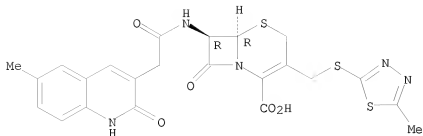
RN 121087-48-7 CAPLUS
 CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid,
 7-[[[(1,2-dihydro-6-methyl-2-oxo-3-quinolinyl)acetyl]amino]-3-[[[(1-methyl-
 1H-tetrazol-5-yl)thio]methyl]-8-oxo-, (6R-trans)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 121087-49-8 CAPLUS
 CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid,
 7-[[[(1,2-dihydro-6-methyl-2-oxo-3-quinolinyl)acetyl]amino]-3-[[[(5-methyl-
 1,3,4-thiadiazol-2-yl)thio]methyl]-8-oxo-, (6R-trans)- (9CI) (CA INDEX
 NAME)

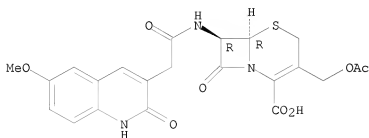
Absolute stereochemistry.



RN 121087-50-1 CAPLUS

CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid,
3-[(acetyloxy)methyl]-7-[[[(1,2-dihydro-6-methoxy-2-oxo-3-
quinolinyl)acetyl]amino]-8-oxo-, (6R-trans)- (9CI) (CA INDEX NAME)

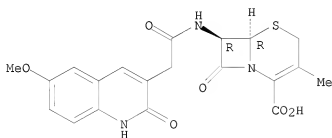
Absolute stereochemistry.



RN 121087-51-2 CAPLUS

CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid,
7-[[[(1,2-dihydro-6-methoxy-2-oxo-3-quinolinyl)acetyl]amino]-3-methyl-8-oxo-
, (6R-trans)- (9CI) (CA INDEX NAME)

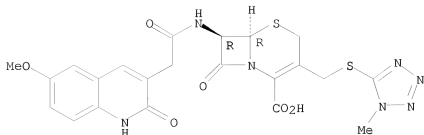
Absolute stereochemistry.



RN 121087-52-3 CAPLUS

CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid,
3-[[[(1-methyl-1H-tetrazol-5-yl)thio]methyl]-8-oxo-, (6R-trans)- (9CI) (CA INDEX NAME)

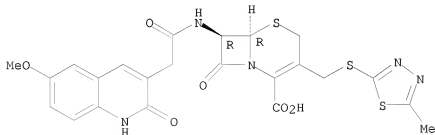
Absolute stereochemistry.



RN 121087-53-4 CAPLUS

CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid,
7-[[[(1,2-dihydro-6-methoxy-2-oxo-3-quinolinyl)acetyl]amino]-3-[(5-methyl-
1,3,4-thiadiazol-2-yl)thio]methyl]-8-oxo-, (6R-trans)- (9CI) (CA INDEX
NAME)

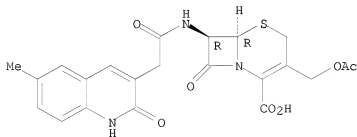
Absolute stereochemistry.



RN 121099-48-7 CAPLUS

CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid,
3-[(acetyloxy)methyl]-7-[[[(1,2-dihydro-6-methyl-2-oxo-3-
quinolinyl)acetyl]amino]-8-oxo-, (6R-trans)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L28 ANSWER 130 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1990:612014 CAPLUS

DOCUMENT NUMBER: 113:212014

ORIGINAL REFERENCE NO.: 113:35835a, 35838a

TITLE: Preparation of (1H-azol-1-ylmethyl)quinolines,
-quinazolines, and -quinoxalines as drugs

INVENTOR(S): Freyne, Eddy Jean Edgard; Venet, Marc Gaston;
Raeymaekers, Alfons Herman Margaretha; Sanz, Gerard
Charles

PATENT ASSIGNEE(S): Janssen Pharmaceutica N. V., Belg.
 SOURCE: Eur. Pat. Appl., 106 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 371564	A2	19900606	EP 1989-203014	19891128
EP 371564	A3	19910529		
EP 371564	B1	19950712		
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
US 5028606	A	19910702	US 1989-434957	19891113
US 5037829	A	19910806	US 1989-435120	19891113
CA 2002864	A1	19900529	CA 1989-2002864	19891114
CA 2002864	C	19991116		
DK 8905994	A	19900530	DK 1989-5994	19891128
DK 172748	B1	19990628		
NO 8904734	A	19900530	NO 1989-4734	19891128
NO 174509	B	19940207		
NO 174509	C	19940518		
AU 8945646	A	19900607	AU 1989-45646	19891128
AU 620946	B2	19920227		
HU 52498	A2	19900728	HU 1989-6220	19891128
HU 205106	B	19920330		
ZA 8909076	A	19910731	ZA 1989-9076	19891128
SU 1780536	A3	19921207	SU 1989-4742543	19891128
IL 92486	A	19930708	IL 1989-92486	19891128
ES 2088889	T3	19961001	ES 1989-203014	19891128
FI 101964	B	19980930	FI 1989-5687	19891128
FI 101964	B1	19980930		
CN 1042912	A	19900613	CN 1989-108925	19891129
CN 1033752	B	19970108		
JP 02223579	A	19900905	JP 1989-307793	19891129
JP 2916181	B2	19990705		
US 5151421	A	19920929	US 1991-672298	19910320
US 5185346	A	19930209	US 1991-704746	19910523
US 5268380	A	19931207	US 1992-973871	19921110
US 5441954	A	19950815	US 1993-131817	19931005
CN 1106004	A	19950802	CN 1994-117801	19941102
CN 1036002	B	19971001		
CN 1106005	A	19950802	CN 1994-117802	19941102
CN 1036003	B	19971001		
US 5612354	A	19970318	US 1995-409551	19950323
PRIORITY APPLN. INFO.:				
			GB 1988-27820	A 19881129
			GB 1988-27821	A 19881129
			GB 1988-27822	A 19881129
			US 1989-434205	B2 19891113
			US 1989-434957	A3 19891113
			US 1991-704746	A3 19910523
			US 1992-973871	A3 19921110
			US 1993-131817	A3 19931005

OTHER SOURCE(S): MARPAT 113:212014

GI For diagram(s), see printed CA Issue.

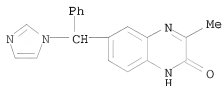
AB The title compds. [I; R = H, alkyl; X1:X2 = CH:CH, CH:N, N:CH; Y = H, alkyl, cycloalkyl, alkenyl, alkynyl, (un)substituted aryl, aralkyl; Z = (un)substituted (oxo)quinolinyl, (oxo- or thioxo)quinazolinyl, (oxo- or dioxo)quinoxalinyl] were prepared as retinoic acid metabolism inhibitors, aromatase inhibitors, etc. Thus, 3,4-dihydroquinolin-2(1H)-one was stirred 2 h at 70° with BzCl in DMF containing AlCl3 and the product

reduced by NaBH₄ to give hydroxymethylquinolinone II (R₁ = Ph, R₂ = OH).
 II (R₁ = Me, R₂ = OH) was stirred overnight with SOCl₂ in THF and the
 product II (R₁ = Me, R₂ = Cl) stirred overnight at 60-70° with
 1H-imidazole in DMSO to give II (R₁ = Me, R₂ = imidazo) which maintained
 plasma levels of i.v. administered all-trans-retinoic acid at ≥10
 ng/mL in rats 2 h after oral administration of 40 mg/kg.

IT 130346-18-8P 130346-22-4P 130346-23-5P
 130346-25-7P 130346-26-8P 130346-27-9P
 130346-30-4P 130346-34-8P 130346-43-9P
 130346-48-4P 130346-52-0P 130346-53-1P
 130346-55-3P 130346-56-4P 130346-58-6P
 130346-59-7P 130346-65-5P 130346-66-6P
 130346-68-8P 130346-69-9P 130346-72-4P
 130346-77-9P 130346-98-4P 130347-01-2P
 130347-23-8P 130347-28-3P 130347-30-7P
 130347-31-8P 130347-37-4P 130347-39-6P
 130347-41-0P 130347-78-3P 130368-36-4P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of, as retinoate metabolism and aromatase inhibitor)

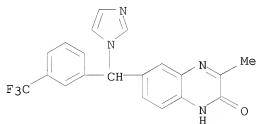
RN 130346-18-8 CAPLUS

CN 2(1H)-Quinoxalinone, 6-(1H-imidazol-1-ylphenylmethyl)-3-methyl- (CA INDEX
 NAME)



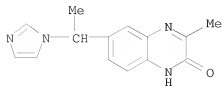
RN 130346-22-4 CAPLUS

CN 2(1H)-Quinoxalinone, 6-[1H-imidazol-1-yl[3-(trifluoromethyl)phenyl]methyl]-
 3-methyl- (CA INDEX NAME)



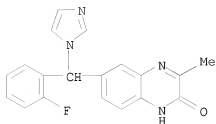
RN 130346-23-5 CAPLUS

CN 2(1H)-Quinoxalinone, 6-[1-(1H-imidazol-1-yl)ethyl]-3-methyl- (CA INDEX
 NAME)



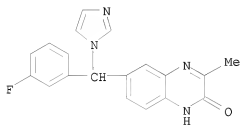
RN 130346-25-7 CAPLUS

CN 2(1H)-Quinoxalinone, 6-[(2-fluorophenyl)-1H-imidazol-1-ylmethyl]-3-methyl-
(CA INDEX NAME)



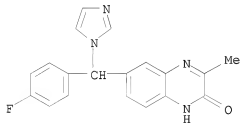
RN 130346-26-8 CAPLUS

CN 2(1H)-Quinoxalinone, 6-[(3-fluorophenyl)-1H-imidazol-1-ylmethyl]-3-methyl-
(CA INDEX NAME)



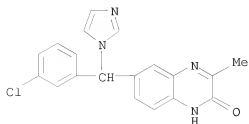
RN 130346-27-9 CAPLUS

CN 2(1H)-Quinoxalinone, 6-[(4-fluorophenyl)-1H-imidazol-1-ylmethyl]-3-methyl-
(CA INDEX NAME)

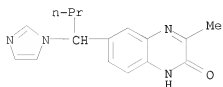


RN 130346-30-4 CAPLUS

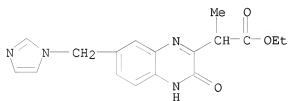
CN 2(1H)-Quinoxalinone, 6-[(3-chlorophenyl)-1H-imidazol-1-ylmethyl]-3-methyl-
(CA INDEX NAME)



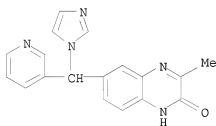
RN 130346-34-8 CAPLUS
 CN 2(1H)-Quinoxalinone, 6-[1-(1H-imidazol-1-yl)butyl]-3-methyl- (CA INDEX NAME)



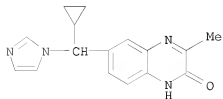
RN 130346-43-9 CAPLUS
 CN 2-Quinoxalineacetic acid, 3,4-dihydro-7-(1H-imidazol-1-ylmethyl)- α -methyl-3-oxo-, ethyl ester (CA INDEX NAME)



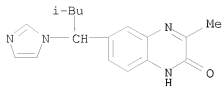
RN 130346-48-4 CAPLUS
 CN 2(1H)-Quinoxalinone, 6-(1H-imidazol-1-yl-3-pyridinylmethyl)-3-methyl- (CA INDEX NAME)



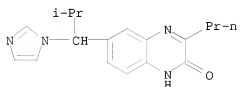
RN 130346-52-0 CAPLUS
 CN 2(1H)-Quinoxalinone, 6-(cyclopropyl-1H-imidazol-1-ylmethyl)-3-methyl- (CA INDEX NAME)



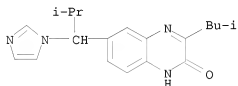
RN 130346-53-1 CAPLUS
 CN 2(1H)-Quinoxalinone, 6-[1-(1H-imidazol-1-yl)-3-methylbutyl]-3-methyl- (CA INDEX NAME)



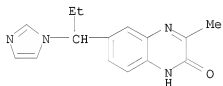
RN 130346-55-3 CAPLUS
 CN 2(1H)-Quinoxalinone, 6-[1-(1H-imidazol-1-yl)-2-methylpropyl]-3-propyl-
 (CA INDEX NAME)



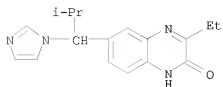
RN 130346-56-4 CAPLUS
 CN 2(1H)-Quinoxalinone, 6-[1-(1H-imidazol-1-yl)-2-methylpropyl]-3-(2-
 methylpropyl)- (CA INDEX NAME)



RN 130346-58-6 CAPLUS
 CN 2(1H)-Quinoxalinone, 6-[1-(1H-imidazol-1-yl)propyl]-3-methyl- (CA INDEX
 NAME)

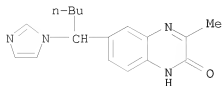


RN 130346-59-7 CAPLUS
 CN 2(1H)-Quinoxalinone, 3-ethyl-6-[1-(1H-imidazol-1-yl)-2-methylpropyl]- (CA
 INDEX NAME)



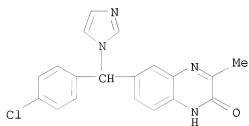
RN 130346-65-5 CAPLUS

CN 2(1H)-Quinoxalinone, 6-[1-(1H-imidazol-1-yl)pentyl]-3-methyl- (CA INDEX NAME)



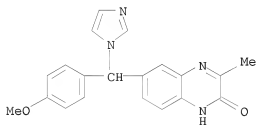
RN 130346-66-6 CAPLUS

CN 2(1H)-Quinoxalinone, 6-[(4-chlorophenyl)-1H-imidazol-1-ylmethyl]-3-methyl- (CA INDEX NAME)



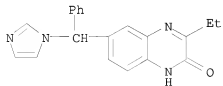
RN 130346-68-8 CAPLUS

CN 2(1H)-Quinoxalinone, 6-[(1H-imidazol-1-yl)(4-methoxyphenyl)methyl]-3-methyl- (9CI) (CA INDEX NAME)



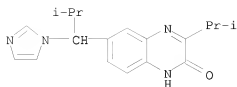
RN 130346-69-9 CAPLUS

CN 2(1H)-Quinoxalinone, 3-ethyl-6-(1H-imidazol-1-ylphenylmethyl)- (CA INDEX NAME)

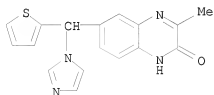


RN 130346-72-4 CAPLUS

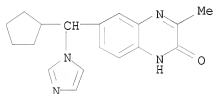
CN 2(1H)-Quinoxalinone, 6-[1-(1H-imidazol-1-yl)-2-methylpropyl]-3-(1-methylethyl)- (CA INDEX NAME)



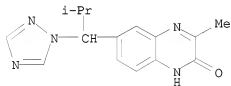
RN 130346-77-9 CAPLUS
CN 2(1H)-Quinoxalinone, 6-(1H-imidazol-1-yl-2-thienylmethyl)-3-methyl- (CA INDEX NAME)



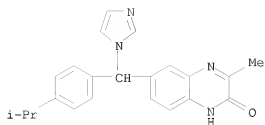
RN 130346-98-4 CAPLUS
CN 2(1H)-Quinoxalinone, 6-(cyclopentyl-1H-imidazol-1-ylmethyl)-3-methyl- (CA INDEX NAME)



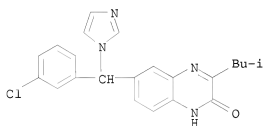
RN 130347-01-2 CAPLUS
CN 2(1H)-Quinoxalinone, 3-methyl-6-[2-methyl-1-(1H-1,2,4-triazol-1-yl)propyl]- (CA INDEX NAME)



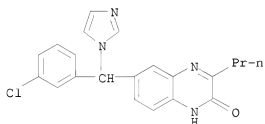
RN 130347-23-8 CAPLUS
CN 2(1H)-Quinoxalinone, 6-[1H-imidazol-1-yl[4-(1-methylethyl)phenyl]methyl]-3-methyl- (CA INDEX NAME)



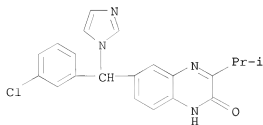
RN 130347-28-3 CAPLUS
 CN 2(1H)-Quinoxalinone, 6-[(3-chlorophenyl)-1H-imidazol-1-ylmethyl]-3-(2-methylpropyl)- (CA INDEX NAME)



RN 130347-30-7 CAPLUS
 CN 2(1H)-Quinoxalinone, 6-[(3-chlorophenyl)-1H-imidazol-1-ylmethyl]-3-propyl- (CA INDEX NAME)

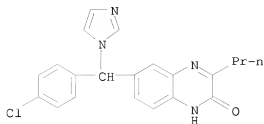


RN 130347-31-8 CAPLUS
 CN 2(1H)-Quinoxalinone, 6-[(3-chlorophenyl)-1H-imidazol-1-ylmethyl]-3-(1-methylethyl)- (CA INDEX NAME)



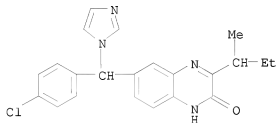
RN 130347-37-4 CAPLUS
 CN 2(1H)-Quinoxalinone, 6-[(4-chlorophenyl)-1H-imidazol-1-ylmethyl]-3-propyl-

(CA INDEX NAME)



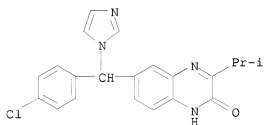
RN 130347-39-6 CAPLUS

CN 2(1H)-Quinoxalinone, 6-[(4-chlorophenyl)-1H-imidazol-1-ylmethyl]-3-(1-methylpropyl)- (CA INDEX NAME)



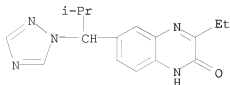
RN 130347-41-0 CAPLUS

CN 2(1H)-Quinoxalinone, 6-[(4-chlorophenyl)-1H-imidazol-1-ylmethyl]-3-(1-methylethyl)- (CA INDEX NAME)



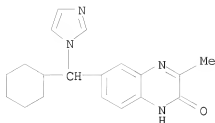
RN 130347-78-3 CAPLUS

CN 2(1H)-Quinoxalinone, 3-ethyl-6-[2-methyl-1-(1H-1,2,4-triazol-1-yl)propyl]- (CA INDEX NAME)



RN 130368-36-4 CAPLUS

CN 2(1H)-Quinoxalinone, 6-(cyclohexyl-1H-imidazol-1-ylmethyl)-3-methyl- (CA INDEX NAME)



L28 ANSWER 131 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1990:459631 CAPLUS

DOCUMENT NUMBER: 113:59631

ORIGINAL REFERENCE NO.: 113:10103a,10106a

TITLE: A convenient one-step synthesis of 2-isopropylfuro[2,3-b]quinolines from 3-prenyl-2-quinolones

AUTHOR(S): Subramaniam, M.; Prasad, K. J. Rajendra; Shanmugam, P.
CORPORATE SOURCE: Dep. Chem., Bharathiar Univ., Coimbatore, 641 046, India

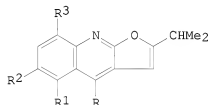
SOURCE: Synthesis (1989), (10), 777-8
CODEN: SYNTBF; ISSN: 0039-7881

DOCUMENT TYPE: Journal

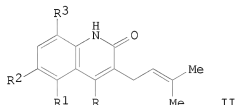
LANGUAGE: English

OTHER SOURCE(S): CASREACT 113:59631

GI



I



II

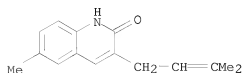
AB Six isopropylfuroquinolines I (R, R3 = H, Me, MeO; R1, R2 = H, Me) were prepared in 54-70% yield by cyclization of the prenylquinolinones II by treatment with iodine in presence of HgO.

IT 82359-17-9

RL: RCT (Reactant); RACT (Reactant or reagent)
(intramol. cyclization of, isopropylfuroquinoline derivative from)

RN 82359-17-9 CAPLUS

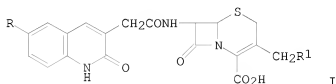
CN 2(1H)-Quinolinone, 6-methyl-3-(3-methyl-2-butenyl)- (9CI) (CA INDEX NAME)



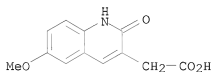
L28 ANSWER 132 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1990:178414 CAPLUS

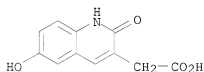
DOCUMENT NUMBER: 112:178414
 ORIGINAL REFERENCE NO.: 112:30165a, 30168a
 TITLE: Synthesis of 7 β -(6-substituted-2-quinolone-3-acetamido)cephalosporins
 AUTHOR(S): Chen, Q. P.; Duan, T. H.; Zhou, H. S.
 CORPORATE SOURCE: Dep. Pharm. Chem., China Pharm. Univ., Nanjing, 210009, Peop. Rep. China
 SOURCE: Yaoxue Xuebao (1989), 24(9), 659-67
 CODEN: YHHPAL; ISSN: 0513-4870
 DOCUMENT TYPE: Journal
 LANGUAGE: Chinese
 GI



AB Title compds. I (R = H, Cl, Me, MeO; R1 = H, AcO, N-methyltetrazolylthio, methylthiadiazolylthio) were prepared from condensation of quinolonecarboxylic acids with aminocephemcarboxylates. I showed bactericidal activity comparable to that of Cefazolin.
 IT 64124-71-6P 126495-53-2P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and amidation of, with aminocephalosporonic acid)
 RN 64124-71-6 CAPLUS
 CN 3-Quinoloneacetic acid, 1,2-dihydro-6-methoxy-2-oxo- (CA INDEX NAME)



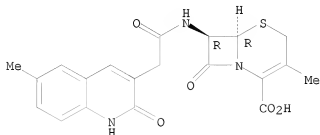
RN 126495-53-2 CAPLUS
 CN 3-Quinoloneacetic acid, 1,2-dihydro-6-hydroxy-2-oxo- (CA INDEX NAME)



IT 121087-47-6P 121087-48-7P 121087-49-8P
 121087-50-1P 121087-51-2P 121087-52-3P
 121087-53-4P 121099-48-7P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
 (preparation and bactericidal activity of)

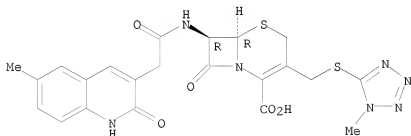
RN 121087-47-6 CAPLUS
 CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid,
 7-[[[(1,2-dihydro-6-methyl-2-oxo-3-quinolinyl)acetyl]amino]-3-methyl-8-oxo-
 , (6R-trans)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



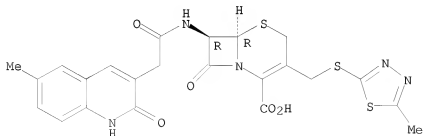
RN 121087-48-7 CAPLUS
 CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid,
 7-[[[(1,2-dihydro-6-methyl-2-oxo-3-quinolinyl)acetyl]amino]-3-[(1-methyl-
 1H-tetrazol-5-yl)thio]methyl]-8-oxo-, (6R-trans)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



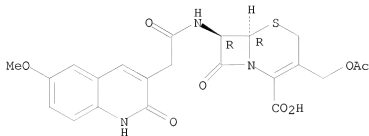
RN 121087-49-8 CAPLUS
 CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid,
 7-[[[(1,2-dihydro-6-methyl-2-oxo-3-quinolinyl)acetyl]amino]-3-[(5-methyl-
 1,3,4-thiadiazol-2-yl)thio]methyl]-8-oxo-, (6R-trans)- (9CI) (CA INDEX
 NAME)

Absolute stereochemistry.



RN 121087-50-1 CAPLUS
 CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid,
 3-[(acetyloxy)methyl]-7-[[[(1,2-dihydro-6-methoxy-2-oxo-3-
 quinolinyl)acetyl]amino]-8-oxo-, (6R-trans)- (9CI) (CA INDEX NAME)

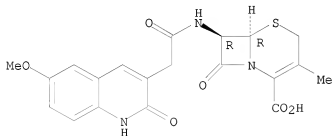
Absolute stereochemistry.



RN 121087-51-2 CAPLUS

CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid,
7-[[[(1,2-dihydro-6-methoxy-2-oxo-3-quinolinyl)acetyl]amino]-3-methyl-8-oxo-
, (6R-trans)- (9CI) (CA INDEX NAME)

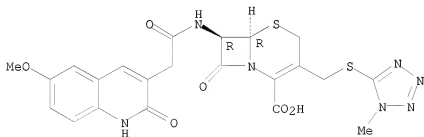
Absolute stereochemistry.



RN 121087-52-3 CAPLUS

CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid,
7-[[[(1,2-dihydro-6-methoxy-2-oxo-3-quinolinyl)acetyl]amino]-3-[(1-methyl-
1H-tetrazol-5-yl)thio]methyl]-8-oxo-, (6R-trans)- (9CI) (CA INDEX NAME)

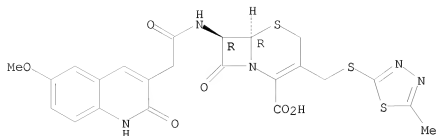
Absolute stereochemistry.



RN 121087-53-4 CAPLUS

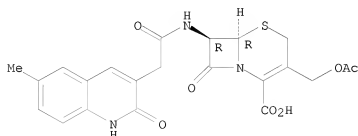
CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid,
7-[[[(1,2-dihydro-6-methoxy-2-oxo-3-quinolinyl)acetyl]amino]-3-[(5-methyl-
1,3,4-thiadiazol-2-yl)thio]methyl]-8-oxo-, (6R-trans)- (9CI) (CA INDEX
NAME)

Absolute stereochemistry.

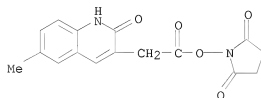


RN 121099-48-7 CAPLUS
 CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid,
 3-[(acetyloxy)methyl]-7-[[[(1,2-dihydro-6-methyl-2-oxo-3-
 quinolinyl)acetyl]amino]-8-oxo-, (6R-trans)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 126495-54-3P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation and condensation of, with aminocephalosporanic acid)
 RN 126495-54-3 CAPLUS
 CN 2,5-Pyrrolidinedione, 1-[[[(1,2-dihydro-6-methyl-2-oxo-3-
 quinolinyl)acetyl]oxy]- (9CI) (CA INDEX NAME)

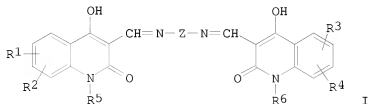


L28 ANSWER 133 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1990:140578 CAPLUS
 DOCUMENT NUMBER: 112:140578
 ORIGINAL REFERENCE NO.: 112:23769a, 23772a
 TITLE: Thermoplastics containing nickel complex pigments with
 stability during melt processing
 Inventor(s): Lienhard, Paul; Jaffe, Edward E.
 Patent Assignee(s): Ciba-Geigy Corp., USA
 SOURCE: U.S., 7 pp.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4866112	A	19890912	US 1988-226358	19880729
EP 354178	A1	19900207	EP 1989-810552	19890720
R: CH, DE, FR, GB, IT, LI				
JP 02088654	A	19900328	JP 1989-196472	19890728
PRIORITY APPLN. INFO.:			US 1988-226358	A 19880729

GI

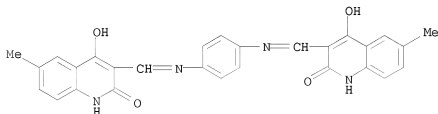


AB Ni complexes of compds. I (R1-4 = H, halo, Me; R5-6 = H, C1-4 alkyl; Z = p- or o-C6H4 optionally containing substituents) are resistant to heat and light and useful as pigments in melt-processable thermoplastics. Thus, 0.6 g powdered 1:1 Ni complex of I (R1-6 = H; Z = p-C6H4) was mixed with PVC 67, DOP 33, dibutyltin dilaurate 2, and TiO2 2 g and processed in a roll mill for 15 min at 160° to form a greenish yellow film.

IT 125598-90-5D, nickel complex
RL: USES (Uses)

RN (pigment, heat- and light-resistant, for thermoplastics)

CN 125598-90-5 CAPLUS
CN 2(1H)-Quinolinone, 3,3'-[1,4-phenylenebis(nitrilomethylidene)]bis[4-hydroxy-6-methyl- (9CI) (CA INDEX NAME)



L28 ANSWER 134 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1990:83945 CAPLUS
DOCUMENT NUMBER: 112:83945
ORIGINAL REFERENCE NO.: 112:14207a,14210a
TITLE: Preparative separation of cephalosporins by centrifugal TLC
AUTHOR(S): Chen, Qingping; Zhou, Jiacheng; Duan, Tinghan; Zhou, Huishu
CORPORATE SOURCE: Dep. Pharm. Chem., China Pharm. Univ., Nanjing, Peop. Rep. China
SOURCE: Kangshengsu (1989), 14(3), 161-7
CODEN: KANGDS; ISSN: 0254-6116
DOCUMENT TYPE: Journal
LANGUAGE: Chinese

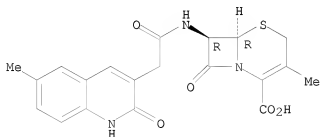
AB Synthetic cephalosporin products were isolated by centrifugal TLC. This separation technique is satisfactorily applied to the purification of 2 series of cephalosporins. The operating conditions including preparation and reuse of coating layer, selection of the solvent, limit of separation quantity, separation time etc. were studied. Centrifugal TLC is a simple and very rapid technique for the preparative separation or purification of cephalosporins and has the advantage of lower cost, less time and better availability. This method is much more suitable for the separation and purification of unstable substances like cephalosporins.

IT 121087-47-6 121087-49-8 121087-50-1
 121087-51-2 121087-52-3 121087-53-4
 121099-48-7 125113-08-8
 RL: PROC (Process)
 (separation of, preparative, by centrifugal TLC)

RN 121087-47-6 CAPLUS

CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid,
 7-[[[(1,2-dihydro-6-methyl-2-oxo-3-quinolinyl)acetyl]amino]-3-methyl-8-oxo-, (6R-trans)- (9CI) (CA INDEX NAME)

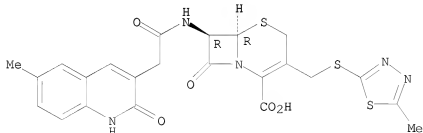
Absolute stereochemistry.



RN 121087-49-8 CAPLUS

CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid,
 7-[[[(1,2-dihydro-6-methyl-2-oxo-3-quinolinyl)acetyl]amino]-3-[[[(5-methyl-1,3,4-thiadiazol-2-yl)thio]methyl]-8-oxo-, (6R-trans)- (9CI) (CA INDEX NAME)

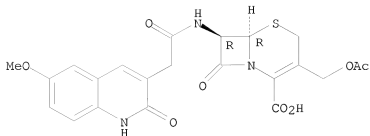
Absolute stereochemistry.



RN 121087-50-1 CAPLUS

CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid,
 3-[(acetyloxy)methyl]-7-[[[(1,2-dihydro-6-methoxy-2-oxo-3-quinolinyl)acetyl]amino]-8-oxo-, (6R-trans)- (9CI) (CA INDEX NAME)

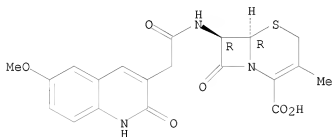
Absolute stereochemistry.



RN 121087-51-2 CAPLUS

CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid,
7-[[[(1,2-dihydro-6-methoxy-2-oxo-3-quinolinyl)acetyl]amino]-3-methyl-8-oxo-
, (6R-trans)- (9CI) (CA INDEX NAME)

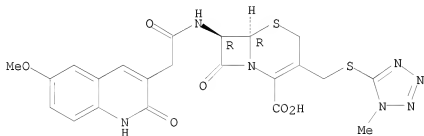
Absolute stereochemistry.



RN 121087-52-3 CAPLUS

CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid,
7-[[[(1,2-dihydro-6-methoxy-2-oxo-3-quinolinyl)acetyl]amino]-3-[[[(1-methyl-
1H-tetrazol-5-yl)thio]methyl]-8-oxo-, (6R-trans)- (9CI) (CA INDEX NAME)

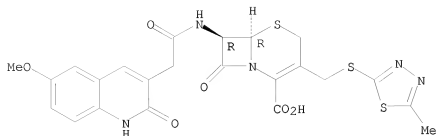
Absolute stereochemistry.



RN 121087-53-4 CAPLUS

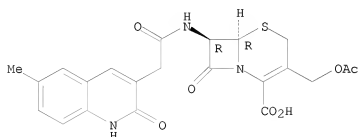
CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid,
7-[[[(1,2-dihydro-6-methoxy-2-oxo-3-quinolinyl)acetyl]amino]-3-[[[(5-methyl-
1,3,4-thiadiazol-2-yl)thio]methyl]-8-oxo-, (6R-trans)- (9CI) (CA INDEX
NAME)

Absolute stereochemistry.



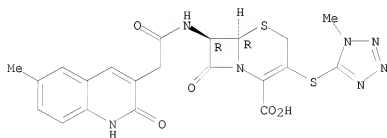
RN 121099-48-7 CAPLUS
 CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid,
 3-[(acetyloxy)methyl]-7-[[[(1,2-dihydro-6-methyl-2-oxo-3-
 quinolinyl)acetyl]amino]-8-oxo-, (6R-trans)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 125113-08-8 CAPLUS
 CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid,
 7-[[[(1,2-dihydro-6-methyl-2-oxo-3-quinolinyl)acetyl]amino]-3-[(1-methyl-1H-
 tetrazol-5-yl)thio]-8-oxo-, (6R-trans)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L28 ANSWER 135 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1989:632856 CAPLUS

DOCUMENT NUMBER: 111:232856

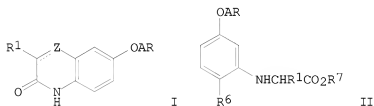
ORIGINAL REFERENCE NO.: 111:38689a, 38692a

TITLE: Preparation of 2-oxo-1,2-dihydroquinoxalines as
 phosphodiesterase and blood platelet aggregation
 inhibitors

INVENTOR(S): Suzuki, Yukio; Yaso, Masao; Nishimura, Katumi; Saeki,
 Kenji; Takayanagi, Noriyasu; Saito, Tetsu; Hayashi,
 Eiichi

PATENT ASSIGNEE(S): Toyo Jozo Co., Ltd., Japan
 SOURCE: Eur. Pat. Appl., 60 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 311378	A2	19890412	EP 1988-309284	19881005
EP 311378	A3	19891213		
EP 311378	B1	19940427		
R: CH, DE, ES, FR, GB, IT, LI				
JP 02076860	A	19900316	JP 1988-210346	19880824
US 4870175	A	19890926	US 1988-253546	19881005
ES 2063050	T3	19950101	ES 1988-309284	19881005
PRIORITY APPLN. INFO.:			JP 1987-251264	A 19871005
			JP 1988-210346	A 19880824
OTHER SOURCE(S):		CASREACT 111:232856; MARPAT 111:232856		
GI				



AB The title compds. [I; Z = N, NH; R1 = H, alkyl, (substituted) Ph; A = alkylene; R = CO2H, alkoxycarbonyl, CONR2R3, 1-cycloalkyltetrazol-5-yl; R2 = alkyl, hydroxyalkyl, (substituted)phenylalkyl; R3 = alkyl, cycloalkyl; R2R3 = (CH2)2CHR5(CH2)2, (CH2)2NR5(CH2)2; R5 = H, (substituted) Ph], useful for treating thrombosis or a circulatory condition, are prepared by, e.g., reduction of anilino-carboxylate II (R6 = NO2; R7 = alkyl) to II (R6 = NH2), followed by cyclization. Treatment of II (RA = R1 = H; R6 = NO2; R7 = Et) with NaOMe/MeOH followed by treatment with Br(CH2)3CO2Et in DMF gave 86% II [RA = (CH2)3CO2Et] which was refluxed in EtOH with Fe powder and HCl to afford 70% I [Z = NH; R1 = H; RA = (CH2)3CO2Et]. The latter at 100 µg/mL showed 71.3% inhibition of cAMP/phosphodiesterase.

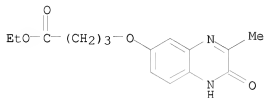
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 123225-21-8P 123225-22-9P 123225-23-0P
 123247-20-1P 123247-21-2P 123247-22-3P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of, as cAMP phosphodiesterase and blood platelet aggregation

inhibitor)

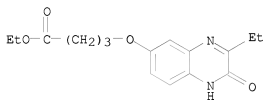
RN 123224-71-5 CAPLUS

CN Butanoic acid, 4-[(1,2-dihydro-3-methyl-2-oxo-6-quinoxalinyloxy]-, ethyl ester (CA INDEX NAME)



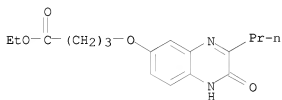
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CN Butanoic acid, 4-[(3-ethyl-1,2-dihydro-2-oxo-6-quinoxalinyloxy]-, ethyl ester (CA INDEX NAME)



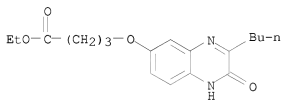
RN 123224-73-7 CAPLUS

CN Butanoic acid, 4-[(1,2-dihydro-2-oxo-3-propyl-6-quinoxalinyloxy]-, ethyl ester (CA INDEX NAME)



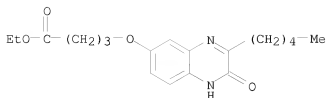
RN 123224-74-8 CAPLUS

CN Butanoic acid, 4-[(3-butyl-1,2-dihydro-2-oxo-6-quinoxalinyloxy]-, ethyl ester (CA INDEX NAME)



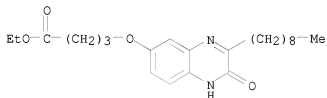
RN 123224-75-9 CAPLUS

CN Butanoic acid, 4-[(1,2-dihydro-2-oxo-3-pentyl-6-quinoxalinyloxy]-, ethyl ester (CA INDEX NAME)



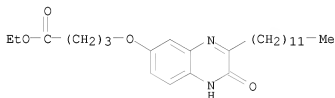
RN 123224-76-0 CAPLUS

CN Butanoic acid, 4-[(1,2-dihydro-3-nonyl-2-oxo-6-quinoxalinyloxy]-, ethyl ester (CA INDEX NAME)



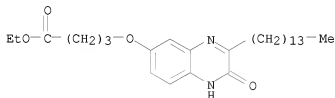
RN 123224-77-1 CAPLUS

CN Butanoic acid, 4-[(3-dodecyl-1,2-dihydro-2-oxo-6-quinoxalinyloxy]-, ethyl ester (CA INDEX NAME)



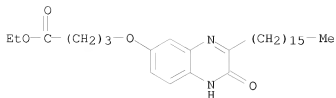
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CN Butanoic acid, 4-[(1,2-dihydro-2-oxo-3-tetradecyl-6-quinoxalinyloxy]-, ethyl ester (CA INDEX NAME)



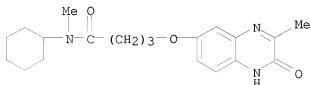
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CN Butanoic acid, 4-[(3-hexadecyl-1,2-dihydro-2-oxo-6-quinoxalinyloxy]-, ethyl ester (CA INDEX NAME)



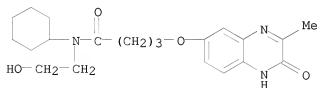
RN 123224-81-7 CAPLUS

CN Butanamide, N-cyclohexyl-4-[(1,2-dihydro-3-methyl-2-oxo-6-quinoxalinyloxy)-N-methyl- (CA INDEX NAME)



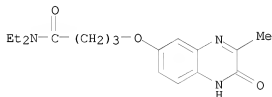
RN 123224-82-8 CAPLUS

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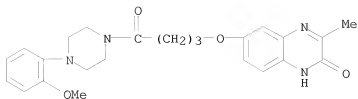
RN 123224-83-9 CAPLUS

CN Butanamide, 4-[(1,2-dihydro-3-methyl-2-oxo-6-quinoxalinyloxy)-N,N-diethyl- (CA INDEX NAME)



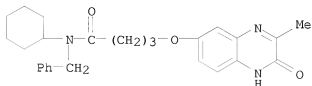
RN 123224-84-0 CAPLUS

CN Piperazine, 1-[4-[(1,2-dihydro-3-methyl-2-oxo-6-quinoxalinyloxy)-1-oxobutyl]-4-(2-methoxyphenyl)- (9CI) (CA INDEX NAME)



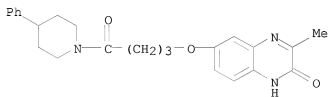
RN 123224-85-1 CAPLUS

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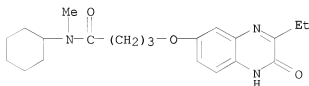
RN 123224-86-2 CAPLUS

CN Piperidine, 1-[4-[(1,2-dihydro-3-methyl-2-oxo-6-quinoxalinyloxy)-1-oxobutyl]-4-phenyl- (9CI) (CA INDEX NAME)



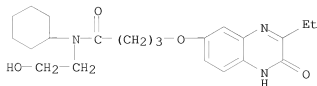
RN 123224-87-3 CAPLUS

CN Butanamide, N-cyclohexyl-4-[(3-ethyl-1,2-dihydro-2-oxo-6-quinoxalinyloxy)-N-methyl- (CA INDEX NAME)



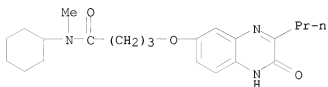
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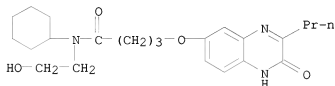
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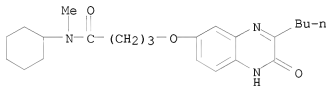
RN 123224-90-8 CAPLUS

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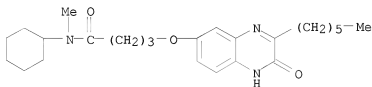
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CN Butanamide, 4-[(3-butyl-1,2-dihydro-2-oxo-6-quinoxalinyloxy)-N-cyclohexyl-N-methyl- (CA INDEX NAME)



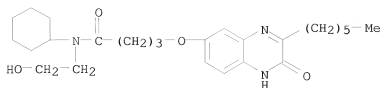
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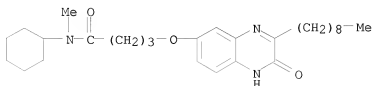
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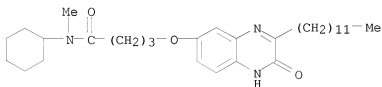
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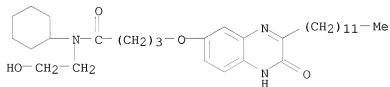
RN 123224-95-3 CAPLUS

CN Butanamide, N-cyclohexyl-4-[(3-dodecyl-1,2-dihydro-2-oxo-6-quinoxalinyloxy)-N-methyl- (CA INDEX NAME)



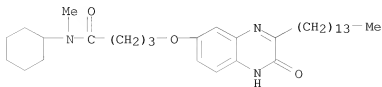
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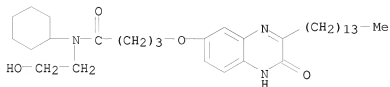
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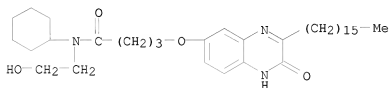
RN 123224-98-6 CAPLUS

CN Butanamide, N-cyclohexyl-4-[(1,2-dihydro-2-oxo-3-tetradecyl-6-quinoxalinyloxy)-N-(2-hydroxyethyl)- (CA INDEX NAME)



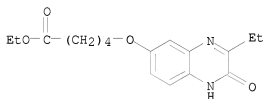
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CN Butanamide, N-cyclohexyl-4-[(3-hexadecyl-1,2-dihydro-2-oxo-6-quinoxalinyloxy)-N-(2-hydroxyethyl)- (CA INDEX NAME)



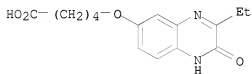
RN 123225-05-8 CAPLUS

CN Pentanoic acid, 5-[(3-ethyl-1,2-dihydro-2-oxo-6-quinoxalinyloxy)-, ethyl ester (CA INDEX NAME)



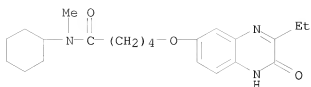
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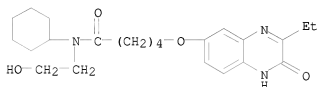
RN 123225-07-0 CAPLUS

CN Pentanamide, N-cyclohexyl-5-[(3-ethyl-1,2-dihydro-2-oxo-6-quinoxalinyloxy)-N-methyl- (CA INDEX NAME)



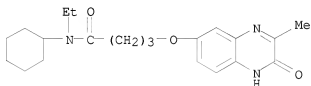
RN 123225-08-1 CAPLUS

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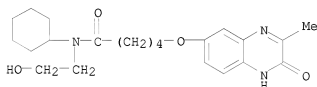
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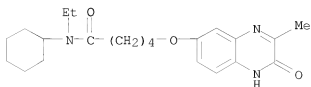
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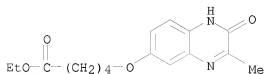
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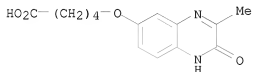
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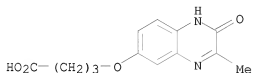
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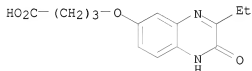
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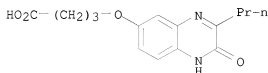
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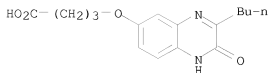
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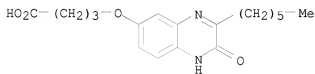


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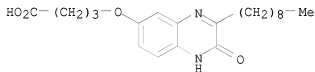
CN Butanoic acid, 4-[(3-butyl-1,2-dihydro-2-oxo-6-quinoxalinyloxy]- (CA INDEX NAME)



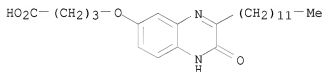
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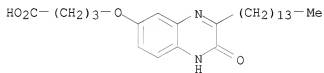
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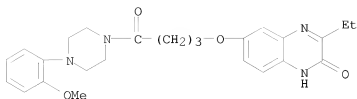
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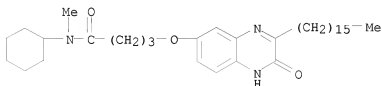
RN 123225-23-0 CAPLUS
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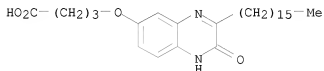
RN 123247-20-1 CAPLUS
 CN Piperazine, 1-[4-[(3-ethyl-1,2-dihydro-2-oxo-6-quinoxalinyloxy]-1-oxobutyl]-4-(2-methoxyphenyl)- (9CI) (CA INDEX NAME)



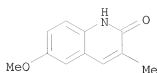
RN 123247-21-2 CAPLUS
 CN Butanamide, N-cyclohexyl-4-[(3-hexadecyl-1,2-dihydro-2-oxo-6-quinoxalinyloxy)-N-methyl- (CA INDEX NAME)]



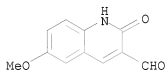
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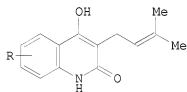
L28 ANSWER 136 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1989:632207 CAPLUS
 DOCUMENT NUMBER: 111:232207
 ORIGINAL REFERENCE NO.: 111:38561a, 38564a
 TITLE: Oxidation of nitromethane by manganese(III) acetate: novel formation of methyl radical
 AUTHOR(S): Srivastava, Ranjan P.; Seth, M.; Bhaduri, A. P.
 CORPORATE SOURCE: Div. Med. Chem., Cent. Drug Res. Inst., Lucknow, 226 001, India
 SOURCE: Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (1989), 28B(1), 65-6
 CODEN: IJSBDB; ISSN: 0376-4699
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 111:232207
 AB The reaction of benzene with nitromethane in the presence of manganese(III) acetate and acetic acid is shown to give toluene via the formation of a Me radical. Formation of the di-Me ether of hydroquinone in the reaction of hydroquinone with nitromethane under identical reaction conditions provides chemical evidence for the formation of Me radical.
 IT 123990-77-2P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and O-methylation of)
 RN 123990-77-2 CAPLUS
 CN 2(1H)-Quinolinone, 6-methoxy-3-methyl- (CA INDEX NAME)



IT 123990-78-3P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 123990-78-3 CAPLUS
 CN 3-Quinolinecarboxaldehyde, 1,2-dihydro-6-methoxy-2-oxo- (CA INDEX NAME)



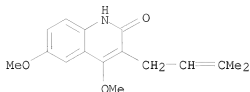
L28 ANSWER 137 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1989:595191 CAPLUS
 DOCUMENT NUMBER: 111:195191
 ORIGINAL REFERENCE NO.: 111:32459a, 32462a
 TITLE: A convenient approach to the synthesis of prenyl-, furo- and pyranoquinoline alkaloids of the Rutaceae Shobana, N.; Yeshoda, P.; Shanmugam, P.
 AUTHOR(S): Dep. Chem., Bharathiar Univ., Coimbatore, 641 046, India
 CORPORATE SOURCE: Tetrahedron (1989), 45(3), 757-62
 SOURCE: CODEN: TETRAB; ISSN: 0040-4020
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 111:195191
 GI



I

AB A convenient method for the synthesis of 4-hydroxy-3-prenyl-2-quinolones I (R = H, 6-, 7-, 8-MeO) which have been recognized as precursors to prenyl-, furo- and pyranoquinoline alkaloids of the Rutaceae is described. The methodol. involves C,C-diprenylation of 2,4-dihydroxyquinoline followed by partial deallylation using sodium hydrogen telluride reagent.
 IT 123348-67-4P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 123348-67-4 CAPLUS
 CN 2(1H)-Quinolinone, 4,6-dimethoxy-3-(3-methyl-2-butenyl)- (9CI) (CA INDEX

NAME)



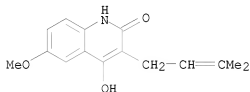
IT 56470-53-2P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation, methylation, and intramol. cyclization of)

RN 56470-53-2 CAPLUS

CN 2(1H)-Quinolinone, 4-hydroxy-6-methoxy-3-(3-methyl-2-butenyl)- (9CI) (CA INDEX NAME)



L28 ANSWER 138 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1989:432635 CAPLUS

DOCUMENT NUMBER: 111:32635

ORIGINAL REFERENCE NO.: 111:5449a,5452a

TITLE: 1,4,5,8-Tetraazaphenanthrene complexes of copper(I) and silver(I)

AUTHOR(S): Nasielski, J.; Nasielski-Hinkens, R.; Heilporn, S.; Rypens, C.; Declercq, J. P.

CORPORATE SOURCE: Fac. Sci., Univ. Libre Bruxelles, Brussels, 1050, Belg.

SOURCE: Bulletin des Societes Chimiques Belges (1988), 97(11-12), 983-92

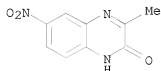
CODEN: BSCBAG; ISSN: 0037-9646

DOCUMENT TYPE: Journal

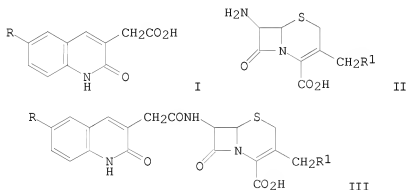
LANGUAGE: English

AB AgL2NO3 (L = 1,4,5,8-tetraazaphenanthrene (TAP), 2,3,6,7-tetramethyl-1,4,5,8-tetraazaphenanthrene (tmTAP)), Cu(L1)2ClO4 (L1 = 3,6-dimethyl-1,4,5,8-tetraazaphenanthrene (dmTAP), tmTAP)), TAP, dmTAP and tmTAP were prepared and characterized. Their ¹H NMR spectra are discussed. The structure of Ag(TAP)2(NO3), as determined by x-ray crystallog. [monoclinic space group Cc, a 16.484(5), b 7.725(2), c 17.100(2) Å, β 16.67(2)°, Z = 4; refinement of 1679 reflections with I > 2.5σ(I) gave R = 0.028] is that of a strongly folded and twisted square planar arrangement of the chelating ligands around the Ag atom; the 4 Ag-N bonds are not equal: they are shorter (2.36 Å) in 1 pair of trans bonds than in the other (2.56 Å). DmTAP was prepared starting from 2-hydroxy-3-methylquinoxaline which was nitrated, then treated with POC13, the resulting 2-chloro-3-methyl-6-nitroquinoxaline reacted with N2H4 and the hydrazino group oxidized to give 3-methyl-6-nitroquinoxaline. This was aminated with hydroxylamine, reduced to the diamine and finally condensed with glyoxal to give 2,6-dimethyl- and 3,6-dimethyl-1,4,5,8-

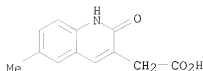
tetraazaphenanthrene.
 IT 19801-10-6P, 2-Hydroxy-3-methyl-6-nitroquinoxaline
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (preparation and chlorination of)
 RN 19801-10-6 CAPLUS
 CN 2(1H)-Quinoxalinone, 3-methyl-6-nitro- (CA INDEX NAME)



L28 ANSWER 139 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1989:423255 CAPLUS
 DOCUMENT NUMBER: 111:23255
 ORIGINAL REFERENCE NO.: 111:4041a,4044a
 TITLE: Application of N,N'-carbonyldiimidazole to the
 synthesis of cephalosporins
 AUTHOR(S): Chen, Qingping; Duan, Tinghan; Zhou, Huishu
 CORPORATE SOURCE: Dep. Pharm. Chem., China Pharm. Univ., Nanjing, Peop.
 Rep. China
 SOURCE: Zhongguo Yaoke Daxue Xuebao (1988), 19(3), 192-6
 CODEN: ZHYXE9; ISSN: 1000-5048
 DOCUMENT TYPE: Journal
 LANGUAGE: Chinese
 GI

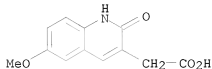


AB Stirring quinolinoneacetic acids I (R = H, Cl, Me, MeO) with
 aminocephemcarboxylic acids II (R1 = OAc, H, 2-methyl-1,3,4-thiadiazol-5-
 ylthio, 1-methyl-1,2,3,4-tetrazol-5-ylthio), Et3N, and
 N,N'-carbonyldiimidazole in Me2SO-CHCl3 for 24 h gave 18-40% amides III.
 IT 61020-52-8 64124-71-6
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (condensation of, with aminocephemcarboxylate, in presence of
 N,N'-carbonyldiimidazole)
 RN 61020-52-8 CAPLUS
 CN 3-Quinoloneacetic acid, 1,2-dihydro-6-methyl-2-oxo- (CA INDEX NAME)



RN 64124-71-6 CAPLUS

CN 3-Quinolineacetic acid, 1,2-dihydro-6-methoxy-2-oxo- (CA INDEX NAME)



IT 121087-47-6P 121087-48-7P 121087-49-8P

121087-50-1P 121087-51-2P 121087-52-3P

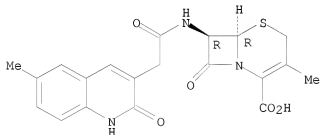
121087-53-4P 121099-48-7P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 121087-47-6 CAPLUS

CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid,
7-[[[(1,2-dihydro-6-methyl-2-oxo-3-quinolinyl)acetyl]amino]-3-methyl-8-oxo-
, (6R-trans)- (9CI) (CA INDEX NAME)

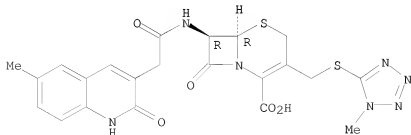
Absolute stereochemistry.



RN 121087-48-7 CAPLUS

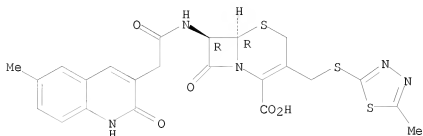
CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid,
7-[[[(1,2-dihydro-6-methyl-2-oxo-3-quinolinyl)acetyl]amino]-3-[[[(1-methyl-
1H-tetrazol-5-yl)thio]methyl]-8-oxo-, (6R-trans)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



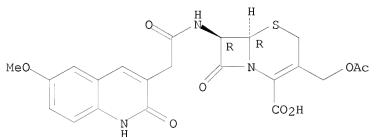
RN 121087-49-8 CAPLUS
 CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid,
 7-[[[(1,2-dihydro-6-methyl-2-oxo-3-quinolinyl)acetyl]amino]-3-[[[(5-methyl-
 1,3,4-thiadiazol-2-yl)thio]methyl]-8-oxo-, (6R-trans)- (9CI) (CA INDEX
 NAME)

Absolute stereochemistry.



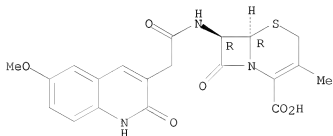
RN 121087-50-1 CAPLUS
 CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid,
 3-[(acetyloxy)methyl]-7-[[[(1,2-dihydro-6-methoxy-2-oxo-3-
 quinolinyl)acetyl]amino]-8-oxo-, (6R-trans)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



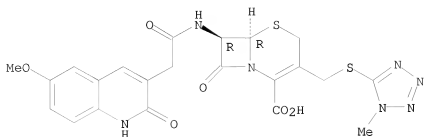
RN 121087-51-2 CAPLUS
 CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid,
 7-[[[(1,2-dihydro-6-methoxy-2-oxo-3-quinolinyl)acetyl]amino]-3-methyl-8-oxo-
 , (6R-trans)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



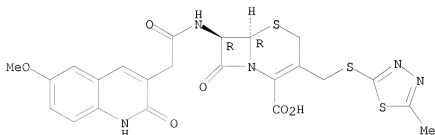
RN 121087-52-3 CAPLUS
 CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid,
 7-[[[(1,2-dihydro-6-methoxy-2-oxo-3-quinolinyl)acetyl]amino]-3-[[[(1-methyl-
 1H-tetrazol-5-yl)thio]methyl]-8-oxo-, (6R-trans)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



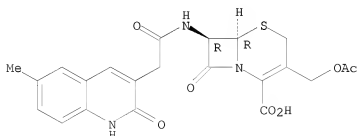
RN 121087-53-4 CAPLUS
 CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid,
 7-[[[(1,2-dihydro-6-methoxy-2-oxo-3-quinolinyl)acetyl]amino]-3-[[[(5-methyl-
 1,3,4-thiadiazol-2-yl)thio]methyl]-8-oxo-, (6R-trans)- (9CI) (CA INDEX
 NAME)

Absolute stereochemistry.



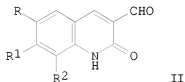
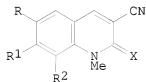
RN 121099-48-7 CAPLUS
 CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid,
 3-[(acetyloxy)methyl]-7-[[[(1,2-dihydro-6-methyl-2-oxo-3-
 quinolinyl)acetyl]amino]-8-oxo-, (6R-trans)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

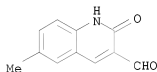


L28 ANSWER 140 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1989:75274 CAPLUS
 DOCUMENT NUMBER: 110:75274
 ORIGINAL REFERENCE NO.: 110:12433a,12436a
 TITLE: Synthesis of 1-methyl-2-oxo-1,2-dihydro-3-
 quinolinecarbonitriles
 AUTHOR(S): Raj, T. Tilak; Ambekar, Sarvottam Y.

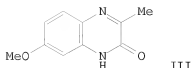
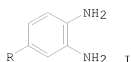
CORPORATE SOURCE: Dep. Chem., Univ. Mysore, Mysore, India
 SOURCE: Journal fuer Praktische Chemie (Leipzig) (1988),
 330(2), 293-8
 CODEN: JPCFAO; ISSN: 0021-8383
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 110:75274
 GI



AB Six title compds. I (R, R1 = H, Me; R1 = H, Me, MeO, Cl, X = O) were prepared from quinolinecarboxaldehydes II by methylation followed by oxidation with HONH2 and dehydration. I (X = O) were treated with P2S5 to give I (X = S).
 IT 101382-53-0
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (methylation of)
 RN 101382-53-0 CAPLUS
 CN 3-Quinolinecarboxaldehyde, 1,2-dihydro-6-methyl-2-oxo- (CA INDEX NAME)



L28 ANSWER 141 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1988:589594 CAPLUS
 DOCUMENT NUMBER: 109:189594
 ORIGINAL REFERENCE NO.: 109:31367a,31370a
 TITLE: Kinetic study on the annelation of heterocycles. 1.
 Quinoxalinone derivatives synthesized by the Hinsberg reaction
 AUTHOR(S): Abasolo, Maria I.; Gaozza, Carlos H.; Fernandez, Beatriz M.
 CORPORATE SOURCE: Fac. Pharm. Biochem., Univ. Buenos Aires, Buenos Aires, Argent.
 SOURCE: Journal of Heterocyclic Chemistry (1987), 24(6), 1771-5
 CODEN: JHTCAD; ISSN: 0022-152X
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 109:189594
 GI

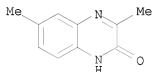


AB Rate consts. were obtained for the Hinsberg cyclocondensation of o-phenylenediamines (I; R = H, MeO, Me) with MeCOCO2R1 (II; R1 = H, Et) to give quinoxalinones. The reaction of I (R = H) was improved by using H2SO4-H2O mixts. The reaction of I (R = MeO) gave III regioselectively, but that of I (R = Me) gave an isomer mixture I (R = NO2, NH2) did not give quinoxalinones. Reactions with II (R1 = H) were 100-1000 times faster than those with II (R1 = Et). Mechanisms were proposed.

IT 28082-84-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 28082-84-0 CAPLUS

CN 2(1H)-Quinoxalinone, 3,6-dimethyl- (CA INDEX NAME)



L28 ANSWER 142 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1988:493385 CAPLUS

DOCUMENT NUMBER: 109:93385

ORIGINAL REFERENCE NO.: 109:15597a,15600a

TITLE: A new synthesis of dictamine, evolitrine and 6-methyldictamnine

AUTHOR(S): Rajamanickam, P.; Shanmugam, P.

CORPORATE SOURCE: Dep. Chem., Bharathiar Univ., Coimbatore, 641 046, India

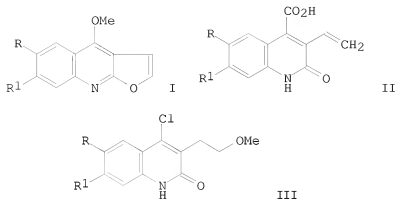
SOURCE: Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (1987), 26B(10), 910-13
CODEN: IJSBDB; ISSN: 0376-4699

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 109:93385

GI

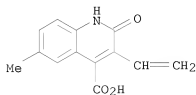


AB Dictamnine (I R = R1 = H), evolitrine (I, R = H, R1 = MeO), and 6-methyldictamnine (I; R = Me, R1 = H) were prepared starting from 4-carboxy-3-vinyl-2-quinolones II via cyclization of (methoxyethyl)quinolones III.

IT 101560-89-8
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (amidation of)

RN 101560-89-8 CAPLUS

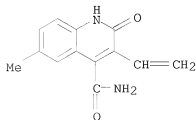
CN 4-Quinolinecarboxylic acid, 3-ethenyl-1,2-dihydro-6-methyl-2-oxo- (CA INDEX NAME)



IT 115881-28-2P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and chlorination of)

RN 115881-28-2 CAPLUS

CN 4-Quinolinecarboxamide, 3-ethenyl-1,2-dihydro-6-methyl-2-oxo- (CA INDEX NAME)

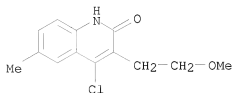


IT 115881-43-1P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and intramol. cyclization of)

RN 115881-43-1 CAPLUS

CN 2(1H)-Quinolinone, 4-chloro-3-(2-methoxyethyl)-6-methyl- (CA INDEX NAME)



L28 ANSWER 143 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1988:437756 CAPLUS

DOCUMENT NUMBER: 109:37756

ORIGINAL REFERENCE NO.: 109:6391a,6394a

TITLE: Pyrroloquinolines. Part IV. Synthesis of

1-aryl-1H-pyrrolo[2,3-b]quinolines

AUTHOR(S): Sivakamasundari, S.; Kumaraswami, K.; Shanmugam, P.;

Vellingiri, R.; Alagaraswamy, C.

CORPORATE SOURCE: Dep. Chem., Bharathiar Univ., Coimbatore, 641 046, India

SOURCE: Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (1987), 26B(8), 744-7

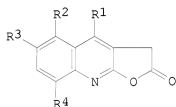
CODEN: IJSBDB; ISSN: 0376-4699

DOCUMENT TYPE: Journal

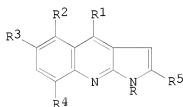
LANGUAGE: English

OTHER SOURCE(S): CASREACT 109:37756

GI



I



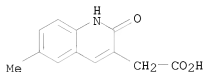
II



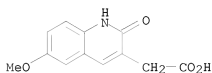
III

AB Condensation of anilines RNH₂ [R = Ph, 4- or 2-MeC₆H₄, 4-MeOC₆H₄, 2,5-(MeO)₂C₆H₃, 4- or 2-ClC₆H₄, 4-BrC₆H₄] with 2-quinolone-3-acetic acid lactones I (R₁ = H, Me, Ph, substituted phenyl, R₂ = H, OMe, R₃ = H, Me, OMe, Cl, R₄ = H, Me, OMe) gave the corresponding 2-quinolone-3-acetanilides in 70-91% yields. Cyclization with POCl₃ gave 1-aryl-2-chloropyrrolo[2,3-b]quinolines II (R₅ = Cl) in 49-72% yields. Hydrogenolysis in the presence of 5 or 10% Pd/C gave the corresponding pyrroloquinolines II (R₅ = H), dihydropyrroloquinolines III, or a mixture of both.

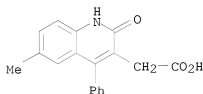
IT 61020-52-8 64124-71-6 65418-08-8
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (cyclization of, with acetic anhydride)
 RN 61020-52-8 CAPLUS
 CN 3-Quinolineacetic acid, 1,2-dihydro-6-methyl-2-oxo- (CA INDEX NAME)



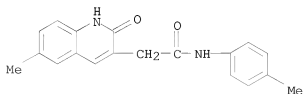
RN 64124-71-6 CAPLUS
 CN 3-Quinolineacetic acid, 1,2-dihydro-6-methoxy-2-oxo- (CA INDEX NAME)



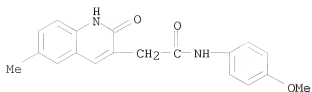
RN 65418-08-8 CAPLUS
 CN 3-Quinoloneacetic acid, 1,2-dihydro-6-methyl-2-oxo-4-phenyl- (CA INDEX NAME)



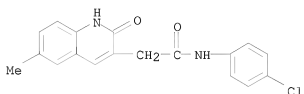
IT 61020-57-3P 115107-59-0P 115107-60-3P
 115107-61-4P 115107-62-5P 115107-67-0P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (preparation and cyclization of, with phosphorus oxychloride)
 RN 61020-57-3 CAPLUS
 CN 3-Quinoloneacetamide, 1,2-dihydro-6-methyl-N-(4-methylphenyl)-2-oxo- (CA INDEX NAME)



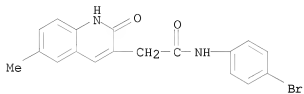
RN 115107-59-0 CAPLUS
 CN 3-Quinoloneacetamide, 1,2-dihydro-N-(4-methoxyphenyl)-6-methyl-2-oxo- (CA INDEX NAME)



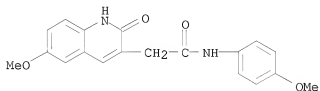
RN 115107-60-3 CAPLUS
 CN 3-Quinolineacetamide, N-(4-chlorophenyl)-1,2-dihydro-6-methyl-2-oxo- (CA
 INDEX NAME)



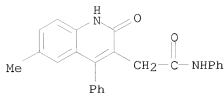
RN 115107-61-4 CAPLUS
 CN 3-Quinolineacetamide, N-(4-bromophenyl)-1,2-dihydro-6-methyl-2-oxo- (CA
 INDEX NAME)



RN 115107-62-5 CAPLUS
 CN 3-Quinolineacetamide, 1,2-dihydro-6-methoxy-N-(4-methoxyphenyl)-2-oxo-
 (CA INDEX NAME)



RN 115107-67-0 CAPLUS
 CN 3-Quinolineacetamide, 1,2-dihydro-6-methyl-2-oxo-N,4-diphenyl- (CA INDEX
 NAME)



L28 ANSWER 144 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1988:422893 CAPLUS

DOCUMENT NUMBER: 109:22893

ORIGINAL REFERENCE NO.: 109:3913a,3916a

TITLE: The synthesis of furo-, thieno-, and pyrazolopyrido[2,3-c]azepines and -pyrido[3,2-c]azepines by photolysis of 5-, 6-, 7-, and 8-azido derivatives of furo[2,3-b]-, thieno[2,3-b]-, and pyrazolo[3,4-b]quinolines

AUTHOR(S): Hayes, Roy; Smalley, Robert K.

CORPORATE SOURCE: Dep. Chem. Appl. Chem., Univ. Salford, Salford, M5 4WT, UK

SOURCE: Journal of Chemical Research, Synopses (1988), (1), 14-15

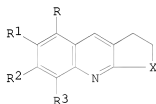
CODEN: JRPSDC; ISSN: 0308-2342

DOCUMENT TYPE: Journal

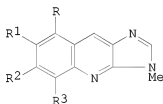
LANGUAGE: English

OTHER SOURCE(S): CASREACT 109:22893

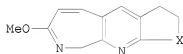
GI



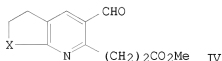
I



II



III



IV

AB Photochem ring expansion of furo- and thieno[2,3-b]quinolines I (X = O, S; R = R1 = R3 = H, R2 = N3; R = R1 = H, R2 = Me, R3 = N3; R = N3, R1 = Me, R2 = R3 = H) and of pyrazolo[3,4-b]quinolines II (R - R3 same) in MeOK-MeOH-dioxane gave the title pyrido[2,3-c]azepines, e.g. III (X = S, O). Similar photolysis of I (X = O, S; R = R2 = R3 = H, R1 = N3) gave ring-opened products IV.

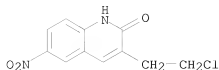
IT 115073-30-8P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation and furo- and thienquinoline formation of)

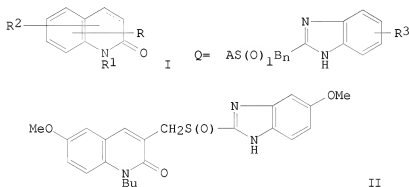
RN 115073-30-8 CAPLUS

CN 2(1H)-Quinolinone, 3-(2-chloroethyl)-6-nitro- (CA INDEX NAME)



L28 ANSWER 145 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1988:221701 CAPLUS
 DOCUMENT NUMBER: 108:221701
 ORIGINAL REFERENCE NO.: 108:36399a,36402a
 TITLE: Preparation of [(2-benzimidazolylalkyl)thio]alkyl]carbostyryl derivatives as antiulcer agents
 INVENTOR(S): Uchida, Minoru; Morita, Seiji; Chihiro, Masatoshi
 PATENT ASSIGNEE(S): Otsuka Pharmaceutical Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 39 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 62240677	A	19871021	JP 1986-61819	19860318
PRIORITY APPLN. INFO.: GI			JP 1985-290994	A1 19851223

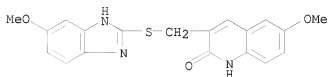


AB The title compds. [I; R = 3-, 4-, 5-, 6-, 7, or 8-Q; R1 = H, (un)substituted lower alkyl, lower alkenyl, lower alkynyl; R2 = H, lower alkoxy, lower alkyl; R3 = H, lower alkoxy, lower (halo)alkyl, halo, lower alkanoyl; A, B = lower alkylene; n, l = 0, 1] and their salts, useful as antiulcer agents, were prepared. A mixture of 2.0 5-methoxy-2-mercapto-1H-benzimidazole, 1.9 3-(chloromethyl)carbostyryl and 1.7 g K2CO3 in DMF was stirred at 60-70° for 7 h to give 1.0 g 3-[(5-methoxy-1H-benzimidazol-2-yl)thio]methyl]carbostyryl. I in vitro inhibited H+ + K+ATPase prepared from hog stomach with IC50's of 2.2 + 10-7 - 8.7 + 10-6M. Tablets containing a carbostyryl derivative II 150 mg, avicel 40, corn starch 30, Mg stearate 2, hydroxypropylmethylcellulose 10, polyethylene glycol 2, hydroxypropylmethylcellulose 10, polyethylene glycol 3, castor oil 40 and ethanol 40 g were prepared.

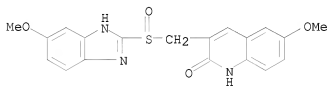
IT 114560-62-2P 114560-88-2P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological

study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);
BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of, as antiulcer agent)

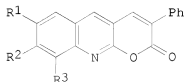
RN 114560-62-2 CAPLUS
CN 2(1H)-Quinolinone, 6-methoxy-3-[[(5-methoxy-1H-benzimidazol-2-yl)thio]methyl]- (9CI) (CA INDEX NAME)



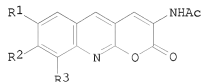
RN 114560-88-2 CAPLUS
CN 2(1H)-Quinolinone, 6-methoxy-3-[[(5-methoxy-1H-benzimidazol-2-yl)sulfinyl]methyl]- (9CI) (CA INDEX NAME)



L28 ANSWER 146 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1988:75246 CAPLUS
DOCUMENT NUMBER: 108:75246
ORIGINAL REFERENCE NO.: 108:12443a,12446a
TITLE: Synthesis and spectral studies of 3-substituted-2H-pyrano[2,3-b]quinolin-2-ones
AUTHOR(S): Tilakraj, T.; Ambekar, Sarvottam Y.
CORPORATE SOURCE: Dep. Post-Grad. Stud. Res. Chem., Univ. Mysore, Mysore, 570 006, India
SOURCE: Journal of the Indian Chemical Society (1986), 63(11), 981-3
CODEN: JICSAH; ISSN: 0019-4522
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 108:75246
GI



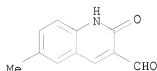
I



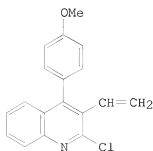
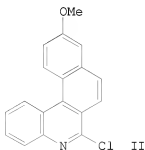
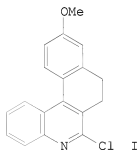
II

AB 3-Formyl-2(1H)-quinolinones underwent a cyclocondensation reaction with PhCH2CO2Na and Ac2O to give phenylpyranoquinolines I (R1 = H, OMe, Me; R2 = H, OMe, Me, Cl; R3 = H, OMe, Me). Acetamido-substituted compds. II (R1 = H, OMe, Me; R2 = H, OMe, Me, Cl; R3 = H, OMe) were prepared from

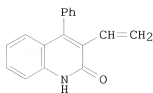
formylquinolinones and AcNHCH₂CO₂H in a mixture of Ac₂O and Et₃N.
 IT 101382-53-0
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (cyclocondensation reaction of, with sodium phenylacetate glycine derivative)
 RN 101382-53-0 CAPLUS
 CN 3-Quinolinedicarboxaldehyde, 1,2-dihydro-6-methyl-2-oxo- (CA INDEX NAME)



L28 ANSWER 147 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1987:636488 CAPLUS
 DOCUMENT NUMBER: 107:236488
 ORIGINAL REFERENCE NO.: 107:37985a, 37988a
 TITLE: Benzophenanthridines. Part V. Photocyclization of 4-phenyl-3-vinylquinolines. Convenient synthesis of benzo[k]phenanthridines
 AUTHOR(S): Veeramani, K.; Shanmugam, P.
 CORPORATE SOURCE: Dep. Chem., Bharathiar Univ., Coimbatore, 641 046, India
 SOURCE: Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (1987), 26B(2), 116-21
 CODEN: IJSBDB; ISSN: 0376-4699
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 107:236488
 GI



III



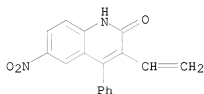
IV

AB The preparation of a variety of title compds., e.g., I and II, via photochem. cyclization of 4-phenyl-3-vinylquinolines, e.g., III is reported. Thus, irradiation of III in C6H6 gave 72% I, whereas, irradiation of III in C6H6 containing iodine gave 54% II. Phenylvinylquinolones, e.g., IV, also underwent similar oxidative and nonoxidative photochem. cyclization. In several cases eliminative photolysis involving the loss of a chloro or methoxy group from the ortho position of the Ph groups was observed

IT 111507-68-7
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (chlorination of)

RN 111507-68-7 CAPLUS

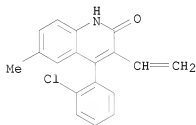
CN 2(1H)-Quinolinone, 3-ethenyl-6-nitro-4-phenyl- (CA INDEX NAME)



IT 62452-23-7
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (photochem. ring closure of)

RN 62452-23-7 CAPLUS

CN 2(1H)-Quinolinone, 4-(2-chlorophenyl)-3-ethenyl-6-methyl- (CA INDEX NAME)



L28 ANSWER 148 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1987:617504 CAPLUS

DOCUMENT NUMBER: 107:217504

ORIGINAL REFERENCE NO.: 107:34894h, 34895a

TITLE: Mercury(II)-promoted cyclization of some 2-alkenylphenols and some cyclic 2-alkenyl-1,3-diketones, 3-keto esters, and 3-keto amides. Synthesis of 2,3-dihydrofuran, 3,4-dihydro-2H-pyran, and 2,3,4,5-tetrahydrooxepin rings fused on carbocyclic or on oxygen and nitrogen heterocyclic systems

AUTHOR(S): Bravo, Pierfrancesco; De Vita, Cristina; Ticozzi, Calimero; Viani, Fiorenza; Cavicchio, Giancarlo

CORPORATE SOURCE: Cent. Studio Sostanze Org. Nat., CNR, Milan, I-20133, Italy

SOURCE: Gazzetta Chimica Italiana (1986), 116(8), 441-7
 CODEN: GCITA9; ISSN: 0016-5603

DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 107:217504
GI

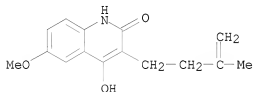
* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB 2H-Pyran-2-ones I (R = Me, C₆H₄Me-p, C₆H₄OMe-p) were treated with Hg(OAc)₂ in THF and then with KCl in H₂O to give the corresponding chloromercurymethyl-substituted 2H,5H-pyrano[4,3-b]pyran-5-ones II. 2(1H)-Quinolinones III (R₁ = R₂ = H, R₃ = H, OMe; R₁ = Me, R₂ = R₃ = H, OMe) also underwent the above Hg(II)-promoted cyclization to give 2H,5H-pyrano[3,2-c]quinolin-5-ones IV. Oxygen heterocyclic compds. V (R₄ = Me, Ph, n = 1; R₄ = Me, n = 2) and VI (R₅ = H, n = 1; R₅ = Me, CMe₃, Ph, n = 2; R₅ = Me, n = 3) were prepared similarly from cyclohexanediones VII and phenols VIII, resp. The intramol. annulation was regioselective and followed the exo-trig route.

IT 109573-20-8
RL: RCT (Reactant); RACT (Reactant or reagent)
(cyclization of, mercury(II)-promoted)

RN 109573-20-8 CAPLUS

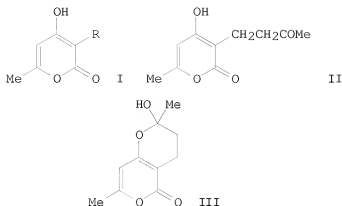
CN 2(1H)-Quinolinone, 4-hydroxy-6-methoxy-3-(3-methyl-3-butenyl)- (9CI) (CA INDEX NAME)



L28 ANSWER 149 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1987:477595 CAPLUS
DOCUMENT NUMBER: 107:77595
ORIGINAL REFERENCE NO.: 107:12765a,12768a
TITLE: Selective method for 3-monoalkylation of 4-hydroxypyran-2-ones and of 4-hydroxyquinolin-2(1H)-ones or their N-methyl derivatives by ketone Mannich bases

AUTHOR(S): Bravo, Pierfrancesco; Resnati, Giuseppe; Viani, Fiorenza; Cavicchio, Giancarlo
CORPORATE SOURCE: Cent. Stud. Sostanze Org. Nat., Politec., Milan, Milan, I-20133, Italy
SOURCE: Journal of Chemical Research, Synopses (1986), (10), 374-5
CODEN: JRPSDC; ISSN: 0308-2342

DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 107:77595
GI

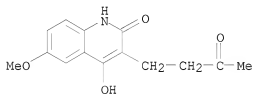


AB Hydroxyalkylquinolines and -pyranones, e.g. I (R = CH₂CH₂COME, CH₂CH₂COCMe₃, CH₂CH₂COC₆H₄Me-p, CH₂CH₂COC₆H₄OMe-p), were prepared by alkylating the corresponding hydroxyquinoline or hydroxypyranone with ketone Mannich bases. Thus, pyranone I (R = H) was treated with MeNCH₂CH₂COME to give II, which exists in solution as a mixture with its cyclic hemiacetal III. Despite the presence of the hemiacetal form, the side chain carbonyl group of II showed normal reactivity toward Ph₃P:CH₂ and MeMgCl to give I [R = CH₂CH₂C(:CH₂)Me, CH₂CH₂C(OH)Me₂] resp.

IT 109573-09-3P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and reaction of, with methylenetriphenylphosphorane)

RN 109573-09-3 CAPLUS

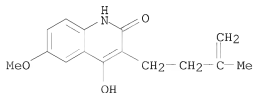
CN 2(1H)-Quinolinone, 4-hydroxy-6-methoxy-3-(3-oxobutyl)- (CA INDEX NAME)



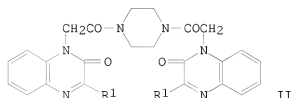
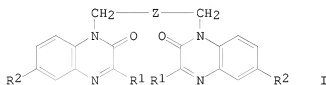
IT 109573-20-8P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)

RN 109573-20-8 CAPLUS

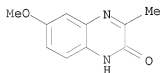
CN 2(1H)-Quinolinone, 4-hydroxy-6-methoxy-3-(3-methyl-3-butenyl)- (9CI) (CA INDEX NAME)



ACCESSION NUMBER: 1987:423312 CAPLUS
 DOCUMENT NUMBER: 107:23312
 ORIGINAL REFERENCE NO.: 107:3943a,3946a
 TITLE: Synthesis of bisquinoxaline derivatives with potential neoplastic activity
 AUTHOR(S): Piatti, S. E.; Bekerman, D.; Gaozza, C. H.
 CORPORATE SOURCE: Fac. Farm. Bioquim., Univ. Buenos Aires, Buenos Aires, 1113, Argent.
 SOURCE: Anales de Quimica, Serie C: Quimica Organica y Bioquimica (1986), 82(2), 85-8
 CODEN: AQSD6; ISSN: 0211-1357
 DOCUMENT TYPE: Journal
 LANGUAGE: Spanish
 OTHER SOURCE(S): CASREACT 107:23312
 GI

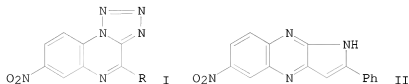


AB Bisquinoxalinones I [Z = (CH₂)₄, CONH(CH₂)_nNHCO (n = 2, 6); R₁ = H, Me; R₂ = H, OMe] were prepared; two I [Z = CONH(CH₂)₆NHCO] showed anti-tumor activity. Piperazines II (R₁ = H, Me) were also prepared
 IT 108833-49-4P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and N-alkylation of, by organic dihalides)
 RN 108833-49-4 CAPLUS
 CN 2(1H)-Quinoxalinone, 6-methoxy-3-methyl- (CA INDEX NAME)

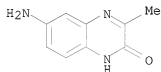


L28 ANSWER 151 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1987:138393 CAPLUS
 DOCUMENT NUMBER: 106:138393
 ORIGINAL REFERENCE NO.: 106:22581a,22584a
 TITLE: Quinoxalines. XX. Synthesis and reactions of 6-nitroquinoxalines
 AUTHOR(S): Lippmann, Eberhard; Burckhardt, Helmut
 CORPORATE SOURCE: Sect. Chem., Karl-Marx-Univ., Leipzig, DDR-7010, Ger. Dem. Rep.

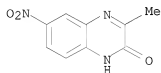
SOURCE: Zeitschrift fuer Chemie (1985), 25(12), 431
 CODEN: ZECEAL; ISSN: 0044-2402
 DOCUMENT TYPE: Journal
 LANGUAGE: German
 OTHER SOURCE(S): CASREACT 106:138393
 GI



AB Cyclization of 2-hydrazino-3-methyl-6-nitroquinoxaline with NaNO₂ gave I
 (R = Me). Thermolysis of I (R = CH:CHPh) in PhNO₂ gave 54% II.
 IT 19801-05-9P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 19801-05-9 CAPLUS
 CN 2(1H)-Quinoxalinone, 6-amino-3-methyl- (CA INDEX NAME)

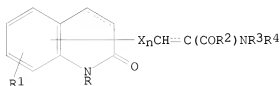


IT 19801-10-6
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (reduction of)
 RN 19801-10-6 CAPLUS
 CN 2(1H)-Quinoxalinone, 3-methyl-6-nitro- (CA INDEX NAME)

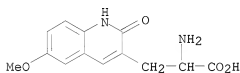


L28 ANSWER 152 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1987:50063 CAPLUS
 DOCUMENT NUMBER: 106:50063
 ORIGINAL REFERENCE NO.: 106:8291a,8294a
 TITLE: Carbstyryl derivatives
 PATENT ASSIGNEE(S): Otsuka Pharmaceutical Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, '78 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

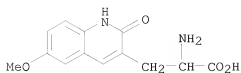
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 60019767	A	19850131	JP 1983-126498	19830711
JP 02061923	B	19901221		
JP 01308258	A	19891212	JP 1989-109540	19890427
JP 05009429	B	19930204		
JP 05065273	A	19930319	JP 1992-55120	19920313
PRIORITY APPLN. INFO.:			JP 1983-126498	19830711
			JP 1989-109540	19890427
OTHER SOURCE(S):	CASREACT 106:50063			
GI				



- AB The title compds. [I; R = H, alkyl, alkenyl, alkynyl, phenylalkyl; R1 = H, halo, OH, (substituted) BzO, alkyl, alkoxy; R2 = OH, NH2, cycloalkylalkylamino, alkoxy, alkoxycarbonylalkoxy, etc.; R3 = H, OH, substituted PhSO2, etc.; R4 = H, substituted PhSO2; X = alkylene; n = 0, 1], useful as antiulcer agents, are prepared. Thus, refluxing a mixture of 5 g Et 2-acetamido-2-carboxy-3 (1,2-dihydro-2-oxo-4-quinolinyl)propionate [obtained by treating 4-(bromomethyl)carbostyryl with AcNHCH(CO2Et) in HOEt/NaOEt] and 150 mL 20% HCl for 9 h gave 3.2 g 2-amino-3-(1,2-dihydro-2-oxo-4-quinolinyl)propionic acid-HCl.H2O. At 10 mg/kg orally twice daily 37 tested I inhibited ulcers by 13.5-38.5% in rats.
- IT 90097-86-2P 90097-87-3P 90097-88-4P
90098-62-7P 90098-63-8P 90098-99-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as anti-ulcer agent)
- RN 90097-86-2 CAPLUS
- CN 3-Quinolinepropanoic acid, α -amino-1,2-dihydro-6-methoxy-2-oxo- (CA INDEX NAME)



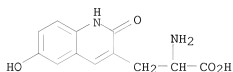
- RN 90097-87-3 CAPLUS
- CN 3-Quinolinepropanoic acid, α -amino-1,2-dihydro-6-methoxy-2-oxo-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 90097-88-4 CAPLUS

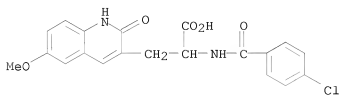
CN 3-Quinolinepropanoic acid, α -amino-1,2-dihydro-6-hydroxy-2-oxo-, monohydrobromide (9CI) (CA INDEX NAME)



● HBr

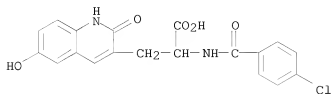
RN 90098-62-7 CAPLUS

CN 3-Quinolinepropanoic acid, α -[(4-chlorobenzoyl)amino]-1,2-dihydro-6-methoxy-2-oxo- (CA INDEX NAME)



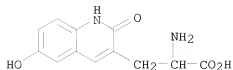
RN 90098-63-8 CAPLUS

CN 3-Quinolinepropanoic acid, α -[(4-chlorobenzoyl)amino]-1,2-dihydro-6-hydroxy-2-oxo- (CA INDEX NAME)

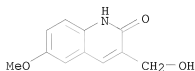


RN 90098-99-0 CAPLUS

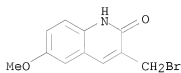
CN 3-Quinolinepropanoic acid, α -amino-1,2-dihydro-6-hydroxy-2-oxo- (CA INDEX NAME)



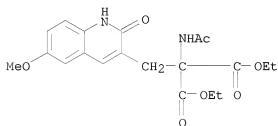
IT 90097-46-4P 90097-53-3P 90097-65-7P
 104898-40-0P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of, as intermediate for anti-ulcer carbostyrils.)
 RN 90097-46-4 CAPLUS
 CN 2(1H)-Quinolinone, 3-(hydroxymethyl)-6-methoxy- (CA INDEX NAME)



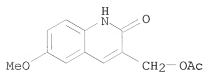
RN 90097-53-3 CAPLUS
 CN 2(1H)-Quinolinone, 3-(bromomethyl)-6-methoxy- (CA INDEX NAME)



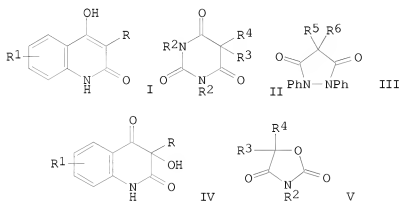
RN 90097-65-7 CAPLUS
 CN Propanedioic acid, (acetylamino)[(1,2-dihydro-6-methoxy-2-oxo-3-quinolinyl)methyl]-, diethyl ester (9CI) (CA INDEX NAME)



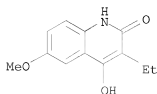
RN 104898-40-0 CAPLUS
 CN 2(1H)-Quinolinone, 3-[(acetyloxy)methyl]-6-methoxy- (CA INDEX NAME)



L28 ANSWER 153 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1986:497413 CAPLUS
 DOCUMENT NUMBER: 105:97413
 ORIGINAL REFERENCE NO.: 105:15745a,15748a
 TITLE: Oxidative hydroxylation of heterocyclic
 β -dicarbonyl compounds
 AUTHOR(S): Stadlbauer, Wolfgang; Kappe, Thomas
 CORPORATE SOURCE: Inst. Org. Chem., Karl-Franzens-Univ., Graz, A-8010,
 Austria
 SOURCE: Monatshefte fuer Chemie (1985), 116(8-9), 1005-15
 CODEN: MOCMB7; ISSN: 0026-9247
 DOCUMENT TYPE: Journal
 LANGUAGE: German
 OTHER SOURCE(S): CASREACT 105:97413
 GI

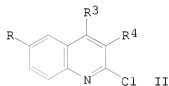
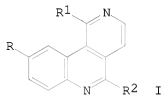


AB 4-Hydroxy-2-quinolones I (R = Ph, Et, PhCH₂; R₁ = 6-, 8-Me, 6-, 7-, 8-MeO, 8-Ph), barbituric acids II (R₂ = R₄ = H, Me, Ph; R₃ = Ph, PhCH₂) and pyrazolidine-2,4-diones III (R₅ = Ph, Bu, R₆ = H) were oxidized to quinolinediones IV, II (R₄ = OH), and IV (R₆ = OH), resp. II also gave oxazolidinediones V.
 IT 103929-49-3P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and oxidative hydroxylation of)
 RN 103929-49-3 CAPLUS
 CN 2(1H)-Quinolinone, 3-ethyl-4-hydroxy-6-methoxy- (CA INDEX NAME)



L28 ANSWER 154 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1986:168390 CAPLUS
 DOCUMENT NUMBER: 104:168390

ORIGINAL REFERENCE NO.: 104:26675a,26678a
 TITLE: A convenient synthesis of benzo[c][2,6]naphthyridines
 AUTHOR(S): Rajamanickam, P.; Shanmugam, P.
 CORPORATE SOURCE: Dep. Chem., Bharathiar Univ., Coimbatore, 641046,
 India
 SOURCE: Synthesis (1985), (5), 541-3
 CODEN: SYNTBF; ISSN: 0039-7881
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 104:168390
 GI

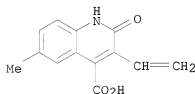


AB The title compds. (I; R = H, Cl, Me; R1 = R2 = Cl) were prepared by treating the oxopyranoquinolines II (R3R4 = CO2CH2CH2) with NH3-EtOH to give 79-90% II (R3 = CONH2, R4 = CH2CH2OH), which were cyclized by treatment with CrO3-AcOH to give 70-85% II (R3R4 = CONHCH:CH) (III). Heating III in POC13 for 2 h yielded 61-68% I. I (R = H, R1 = R2 = Cl) was further treated with MeONa-MeOH to give I (R = H, R1 = R2 = MeO) and with H over Pd/C to give I (R = R1 = R2 = H).

IT 101560-89-8P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and cyclization of)

RN 101560-89-8 CAPLUS

CN 4-Quinolinecarboxylic acid, 3-ethenyl-1,2-dihydro-6-methyl-2-oxo- (CA INDEX NAME)



L28 ANSWER 155 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1986:147895 CAPLUS

DOCUMENT NUMBER: 104:147895

ORIGINAL REFERENCE NO.: 104:23392h,23393a

TITLE: Synthesis and mass spectra of some 2H-pyrano(2,3-b)quinolin-2-ones

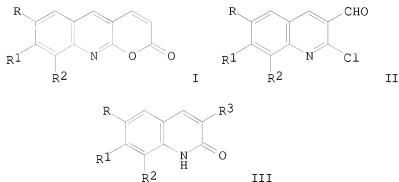
AUTHOR(S): Tilakraj, T.; Ambekar, Sarvottam Y.

CORPORATE SOURCE: Dep. Postgrad. Stud. Res. Chem., Univ. Mysore, Mysore, 570 006, India

SOURCE: Journal of the Indian Chemical Society (1985), 62(3), 251-3

DOCUMENT TYPE:
 LANGUAGE:
 OTHER SOURCE(S):
 GI

CODEN: JICSAH; ISSN: 0019-4522
 Journal
 English
 CASREACT 104:147895

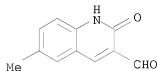


AB Title compds. I (R = H, Me, MeO; R1 = H, MeO, Cl; R2 = H, Me) were prepared by treating chloroformylquinolines II with HCl to give quinolones III (R3 = CHO), which were treated with CH₂(CO₂H)₂, pyridine, and piperidine in EtOH to give III (R3 = CH:CHCO₂H). The latter compds. were cyclized in polyphosphoric acid to give 46-95% I.

IT 101382-53-0P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation and Knoevenagel reaction with malonic acid)

RN 101382-53-0 CAPLUS

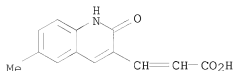
CN 3-Quinolonecarboxaldehyde, 1,2-dihydro-6-methyl-2-oxo- (CA INDEX NAME)



IT 101382-58-5P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and cyclization with polyphosphoric acid)

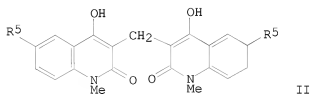
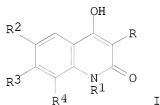
RN 101382-58-5 CAPLUS

CN 2-Propenoic acid, 3-(1,2-dihydro-6-methyl-2-oxo-3-quinolinyl)- (CA INDEX NAME)

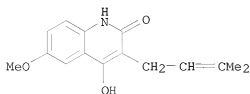


L28 ANSWER 156 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1986:50765 CAPLUS
 DOCUMENT NUMBER: 104:50765

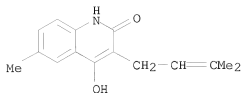
ORIGINAL REFERENCE NO.: 104:8193a,8196a
 TITLE: Studies on potential agents acting on nervous system.
 I. Synthesis of 4-hydroxy-3-(3-methyl-2-butenyl)-2-quinolone analogs
 AUTHOR(S): Gu, Kunjian; Qian, Ligang; Ji, Ruyun
 CORPORATE SOURCE: Shanghai Inst. Mater. Med., Acad. Sinica, Shanghai, Peop. Rep. China
 SOURCE: Yaoxue Xuebao (1985), 20(4), 277-82
 CODEN: YHHFAL; ISSN: 0513-4870
 DOCUMENT TYPE: Journal
 LANGUAGE: Chinese
 GI



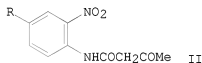
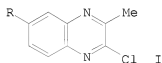
AB Quinolones I (R = Me, R1 = H, R2 = R3 = Cl; R = CH2CH:CMc2; R1 = H, Me; R2 = H, Me, OMe, Ac, Br, F, Cl; R3 = H, Cl; R4 = H, Cl) and bisquinolones II (R5 = Cl, F) were prepared by the cyclocondensation of substituted arylamines and substituted malonates. In preliminary test in mice, I showed analgesic, anticonvulsant or central nervous system depressant activities.
 IT 56470-53-2P 99822-04-5P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation, analgesic, anticonvulsant, and central nervous system depressant activities of)
 RN 56470-53-2 CAPLUS
 CN 2(1H)-Quinolone, 4-hydroxy-6-methoxy-3-(3-methyl-2-butenyl)- (9CI) (CA INDEX NAME)



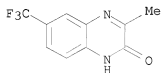
RN 99822-04-5 CAPLUS
 CN 2(1H)-Quinolone, 4-hydroxy-6-methyl-3-(3-methyl-2-butenyl)- (9CI) (CA INDEX NAME)



L28 ANSWER 157 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1985:541918 CAPLUS
 DOCUMENT NUMBER: 103:141918
 ORIGINAL REFERENCE NO.: 103:22727a,22730a
 TITLE: Synthesis of novel 6-substituted 2-chloro-3-methylquinoxalines
 AUTHOR(S): Makino, Kenzi; Sakata, Gozuo; Morimoto, Katsushi
 CORPORATE SOURCE: Cent. Res. Inst., Nissan Chem. Ind., Ltd., Funabashi, 274, Japan
 SOURCE: Heterocycles (1985), 23(8), 2069-74
 CODEN: HETCYAM; ISSN: 0385-5414
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 103:141918
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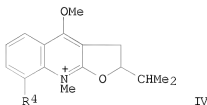
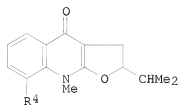
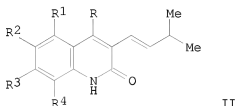
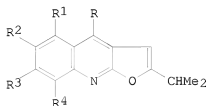


AB A 1-pot synthesis of 2-chloro-3-methylquinoxalines I (R = F, Cl, Br, CF3) was described. Thus, intramol. cyclization of nitroacetoacetanilides II in basic solution, followed by treatment with Et acetoacetate, then chlorination with phosphoryl chloride, gave I.
 IT 98416-70-7P
 RL: SPN (Synthetic preparation); PREP (Preparation) (preparation and chlorination with phosphoryl chloride)
 RN 98416-70-7 CAPLUS
 CN 2(1H)-Quinoxalinone, 3-methyl-6-(trifluoromethyl)- (CA INDEX NAME)



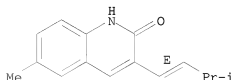
L28 ANSWER 158 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1985:406544 CAPLUS
 DOCUMENT NUMBER: 103:6544
 ORIGINAL REFERENCE NO.: 103:1179a,1182a
 TITLE: Synthesis of 2-isopropylfuro(2,3-b)quinolines - a new synthesis of (+)-lunacrine, (+)-lunasine and

(±)-demethoxylunacrine
 AUTHOR(S): Ramesh, M.; Mohan, P. S.; Shanmugam, P.
 CORPORATE SOURCE: Dep. Chem., Bharathiar Univ., Coimbatore, 641 046,
 India
 SOURCE: Tetrahedron (1984), 40(18), 3431-6
 CODEN: TETRAB; ISSN: 0040-4020
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI



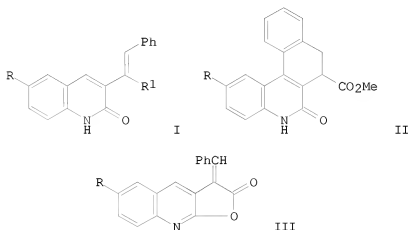
AB Nine furoquinolines I (R = H, Me, Ph, MeO, p-MeOC6H4, R1 = H, Me; R2 = H, Me, Cl; R3 = H; R3R4 = CH:CHCH:CH; R4 = H, Me, MeO) were prepared by 2 methods from the quinolinones II II. (±)-Lunacrine III (R4 = MeO), (±)-lunasine (IV), and (±)-demethoxylunacrine (III, R4 = H) were prepared from the corresponding I (R = MeO).
 IT 95687-73-3
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (ring closure of, furoisquinoline derivative from)
 RN 95687-73-3 CAPLUS
 CN 2(1H)-Quinolinone, 6-methyl-3-(3-methyl-1-butenyl)-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



L28 ANSWER 159 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1985:24456 CAPLUS
 DOCUMENT NUMBER: 102:24456
 ORIGINAL REFERENCE NO.: 102:4031a,4034a
 TITLE: Benzo[k]phenanthridine: part V - nonoxidative
 photocyclization of 3-styrylquinolin-2(1H)-ones
 AUTHOR(S): Arisvaran, V.; Rajan, R. D.; Shanmugam, P.

CORPORATE SOURCE: Dep. Chem., Bharathiar Univ., Coimbatore, 641 046, India
 SOURCE: Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (1984), 23B(9), 855-6
 CODEN: IJSBDB; ISSN: 0376-4699
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI

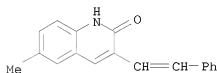


AB The styrylquinolinones I (R = H, Cl, Me, Br, R1 = CO2Me) underwent photocyclization in MeOH under anaerobic conditions to give the benzophenanthridines II in 63-72% yield. I (R1 = H) did not react under identical conditions. Irradiation of the benzylidene lactones III similarly gave II in 61-70% yield.

IT 80356-60-1
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (attempted photocyclization of)

RN 80356-60-1 CAPLUS

CN 2(1H)-Quinolinone, 6-methyl-3-(2-phenylethenyl)- (CA INDEX NAME)



L28 ANSWER 160 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1985:6166 CAPLUS

DOCUMENT NUMBER: 102:6166

ORIGINAL REFERENCE NO.: 102:1115a,1118a

TITLE: Synthesis of benzo[k]phenanthridines: part IV

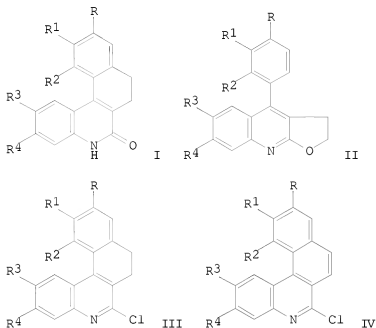
AUTHOR(S): Paramasivam, K.; Shanmugam, P.

CORPORATE SOURCE: Dep. Chem., Bharathiar Univ., Coimbatore, 641 046, India

SOURCE: Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (1984), 23B(4), 311-15
 CODEN: IJSBDB; ISSN: 0376-4699

DOCUMENT TYPE:
LANGUAGE:
GI

Journal
English



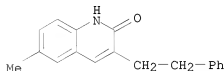
AB Dihydrobenzo[k]phenanthridines I (R, R₁, R₂ = H, Me, MeO; R₃ = H, Cl, Br; R₄ = H, Cl) were prepared by AlCl₃-catalyzed rearrangement of phenylidihydrofuro[2,3-b]quinolines II. Treatment of I with POCl₃ gave chlorodihydrobenzo[k]phenanthridines III which are transformed into dehydro compds. IV by an allylic bromination-dehydrobromination sequence. The earlier proposed mechanism involving a primary carbonium ion intermediate was substantiated.

IT 93424-76-1P 93424-77-2P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

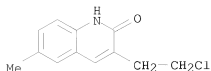
RN 93424-76-1 CAPLUS

CN 2(1H)-Quinolinone, 6-methyl-3-(2-phenylethyl)- (CA INDEX NAME)



RN 93424-77-2 CAPLUS

CN 2(1H)-Quinolinone, 3-(2-chloroethyl)-6-methyl- (CA INDEX NAME)



L28 ANSWER 161 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1984:454936 CAPLUS
 DOCUMENT NUMBER: 101:54936
 ORIGINAL REFERENCE NO.: 101:8532h,8533a
 TITLE: Carbostyryl derivatives and pharmaceuticals containing them
 INVENTOR(S): Uchida, Minoru; Komastu, Makoto; Nakagawa, Kazuyuki
 PATENT ASSIGNEE(S): Otsuka Pharmaceutical Co., Ltd., Japan
 SOURCE: Ger. Offen., 198 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3324034	A1	19840105	DE 1983-3324034	19830704
DE 3324034	C2	19930701		
JP 59007168	A	19840114	JP 1982-117311	19820705
JP 63035623	B	19880715		
JP 59007169	A	19840114	JP 1982-117312	19820705
JP 03028425	B	19910419		
FI 8302425	A	19840106	FI 1983-2425	19830701
FI 80022	B	19891229		
FI 80022	C	19900410		
US 4578381	A	19860325	US 1983-510241	19830701
BE 897208	A1	19840104	BE 1983-211114	19830704
DK 8303078	A	19840106	DK 1983-3078	19830704
DK 168288	B1	19940307		
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NO 164835	B	19900813		
NO 164835	C	19901121		
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SE 462848	B	19900910		
SE 462848	C	19910117		
AU 8316536	A	19840112	AU 1983-16536	19830704
AU 552717	B2	19860619		
CH 654578	A5	19860228	CH 1983-3667	19830704
AT 8302451	A	19870915	AT 1983-2451	19830704
AT 385506	B	19880411		
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FR 2530626	B1	19861205		
NL 8302390	A	19840201	NL 1983-2390	19830705
NL 194165	B	20010402		
NL 194165	C	20010803		
GB 2123825	A	19840208	GB 1983-18174	19830705
GB 2123825	B	19850918		
ZA 8304901	A	19840328	ZA 1983-4901	19830705
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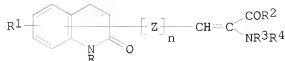
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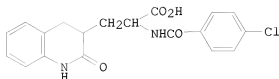
US 1992-937382
JP 1982-117311
JP 1982-117312
US 1983-510241

19920831
A 19820705
A 19820705
A5 19830701

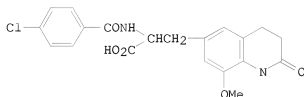
OTHER SOURCE(S): MARPAT 101:54936
GI



I



II



III

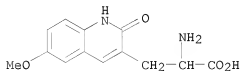
AB Title compds. I [R = H, lower alkyl, alkenyl, alkynyl, phenylalkyl; R1 = H, halo, (halo)benzoyloxy, OH, lower alkyl, alkoxy; R2 = OH, acid derivative; R3 = H, aroyl, arylsulfonyl, etc.; R4 = H, arylsulfonyl; Z = lower alkylene, n = 0, 1; dotted lines signify possible double bonds] and intermediates for them (.apprx.220 in all) were prepared in several conventional ways and shown in some cases to be more active as ulcer-healing agents than sucralfat. Typical of compds. prepared and tested were II and III.

IT 90097-86-2

RL: RCT (Reactant); RACT (Reactant or reagent)
(acylation of)

RN 90097-86-2 CAPLUS

CN 3-Quinolonepropanoic acid, α -amino-1,2-dihydro-6-methoxy-2-oxo- (CA INDEX NAME)

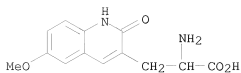


IT 90097-87-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and demethylation of)

RN 90097-87-3 CAPLUS

CN 3-Quinolonepropanoic acid, α -amino-1,2-dihydro-6-methoxy-2-oxo-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

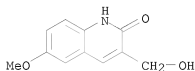
IT 90097-46-4P 90097-53-3P 90097-65-7P

90098-99-0P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

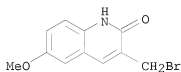
RN 90097-46-4 CAPLUS

CN 2(1H)-Quinolinone, 3-(hydroxymethyl)-6-methoxy- (CA INDEX NAME)



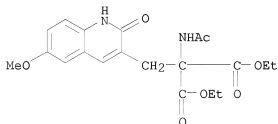
RN 90097-53-3 CAPLUS

CN 2(1H)-Quinolinone, 3-(bromomethyl)-6-methoxy- (CA INDEX NAME)



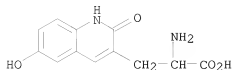
RN 90097-65-7 CAPLUS

CN Propanedioic acid, (acetyl amino)[(1,2-dihydro-6-methoxy-2-oxo-3-quinolinyl)methyl]-, diethyl ester (9CI) (CA INDEX NAME)



RN 90098-99-0 CAPLUS

CN 3-Quinolinepropanoic acid, α-amino-1,2-dihydro-6-hydroxy-2-oxo- (CA INDEX NAME)

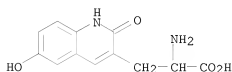


IT 90097-88-4P 90098-62-7P 90098-63-8P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of, as antiulcer agent)

RN 90097-88-4 CAPLUS

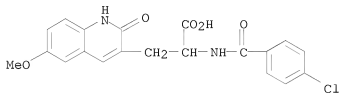
CN 3-Quinolinepropanoic acid, α -amino-1,2-dihydro-6-hydroxy-2-oxo-, monohydrobromide (9CI) (CA INDEX NAME)



● HBr

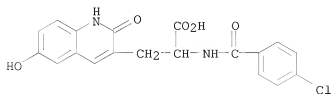
RN 90098-62-7 CAPLUS

CN 3-Quinolinepropanoic acid, α -[(4-chlorobenzoyl)amino]-1,2-dihydro-6-methoxy-2-oxo- (CA INDEX NAME)



RN 90098-63-8 CAPLUS

CN 3-Quinolinepropanoic acid, α -[(4-chlorobenzoyl)amino]-1,2-dihydro-6-hydroxy-2-oxo- (CA INDEX NAME)

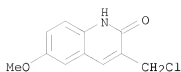


IT 90097-81-7

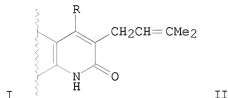
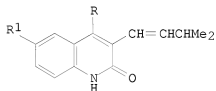
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with calcium acetate)

RN 90097-81-7 CAPLUS

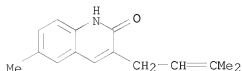
CN 2(1H)-Quinolinone, 3-(chloromethyl)-6-methoxy- (CA INDEX NAME)



L28 ANSWER 162 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1983:575561 CAPLUS
 DOCUMENT NUMBER: 99:175561
 ORIGINAL REFERENCE NO.: 99:26933a,26936a
 TITLE: Sodium hydrogen telluride - a reagent for distinguishing 3-vinylquinolone from 3-prenylquinolone
 AUTHOR(S): Ramesh, M.; Shanmugam, P.
 CORPORATE SOURCE: Dep. Chem., Bharathiar Univ., Coimbatore, 641 041, India
 SOURCE: Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (1983), 22B(6), 617-18
 CODEN: IJSBDB; ISSN: 0376-4699
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI

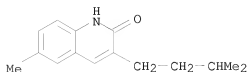


AB Vinylquinolones I (R = H, Me, p-anisyl, MeO, OH; R1 = H, Me, MeNH) underwent reduction of the side chain double bond on treatment with NaHTe. Prenylquinolones II, in contrast, remained unreacted even after prolonged treatment with the reagent.
 IT 82359-17-9
 RL: RCT (Reactant); RACT (Reactant or reagent) (attempted reduction of, by sodium hydrogen telluride)
 RN 82359-17-9 CAPLUS
 CN 2(1H)-Quinolinone, 6-methyl-3-(3-methyl-2-butenyl)- (9CI) (CA INDEX NAME)



IT 87641-66-5P
 RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)
 RN 87641-66-5 CAPLUS

CN 2(1H)-Quinolinone, 6-methyl-3-(3-methylbutyl)- (CA INDEX NAME)

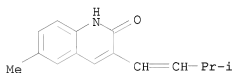


IT 82359-13-5

RL: RCT (Reactant); RACT (Reactant or reagent)
(reduction of, by sodium hydrogen telluride)

RN 82359-13-5 CAPLUS

CN 2(1H)-Quinolinone, 6-methyl-3-(3-methyl-1-butenyl)- (9CI) (CA INDEX NAME)



L28 ANSWER 163 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1982:439184 CAPLUS

DOCUMENT NUMBER: 97:39184

ORIGINAL REFERENCE NO.: 97:6711a,6714a

TITLE: A new synthesis of atanine, khaplofoline, and their analogs

AUTHOR(S): Ramesh, M.; Arisvaran, V.; Rajendran, S. P.; Shanmugam, P.

CORPORATE SOURCE: Dep. Chem., Madras Univ. Postgrad. Cent., Coimbatore, 641 041, India

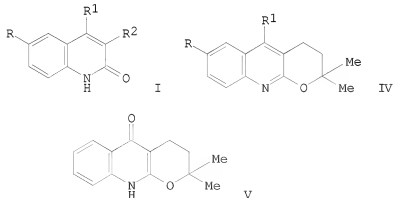
SOURCE: Tetrahedron Letters (1982), 23(9), 967-70

CODEN: TELEAY; ISSN: 0040-4039

DOCUMENT TYPE: Journal

LANGUAGE: English

GI



AB Treatment of the acids I (R2 = CH2CO2H) (R = H, R1 = H, Me, OMe; R = Me,

R1 = H) with Me2CHCHO gave 80-90% of the corresponding isobutyridene lactones, which on cleavage with aqueous alkali, followed by acidification, gave the vinyl acids I [R2 = C(CO2H):CHCHMe2] quant. Decarboxylation of the latter with Cu/Ph2O gave 24-28% I (R, R1 as before, R2 = CH:CHCHMe2) (II) and 40-46% I (R, R1 as before, R2 = CH2CH:CMMe2) (III). On heating with PPA, II gave 75-80% pyranoquinolines IV (R, R1 as before). III (R = H, R1 = OMe) is the alkaloid atanine. Demethylation of IV (R = H, R1 = OMe) on boiling with HCl in EtOH gave 96% khaplofoline (V). Atanine and V occur in the Rutaceae.

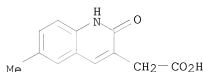
IT 61020-52-8

RL: RCT (Reactant); RACT (Reactant or reagent)

(cyclocondensation of, with isobutyraldehyde, lactone by)

RN 61020-52-8 CAPLUS

CN 3-Quinolineacetic acid, 1,2-dihydro-6-methyl-2-oxo- (CA INDEX NAME)



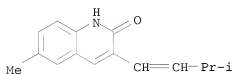
IT 82359-13-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and ring closure of)

RN 82359-13-5 CAPLUS

CN 2(1H)-Quinolinone, 6-methyl-3-(3-methyl-1-butenyl)- (9CI) (CA INDEX NAME)



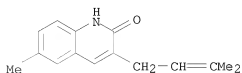
IT 82359-17-9P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of)

RN 82359-17-9 CAPLUS

CN 2(1H)-Quinolinone, 6-methyl-3-(3-methyl-2-butenyl)- (9CI) (CA INDEX NAME)



L28 ANSWER 164 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1982:199482 CAPLUS

DOCUMENT NUMBER: 96:199482

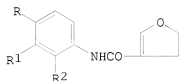
ORIGINAL REFERENCE NO.: 96:32891a,32894a

TITLE: A convenient one-step synthesis of 3-(2-hydroxyethyl)-quinolin-2(1H)-ones

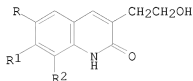
AUTHOR(S): Rajendran, S. P.; Arisvaran, V.; Ramesh, M.; Shanmugam, P.

CORPORATE SOURCE: Post-Grad. Cent., Madras Univ., Coimbatore, 641 041,

SOURCE: India
 Synthesis (1982), (2), 160-2
 CODEN: SYNTBF; ISSN: 0039-7881
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 96:199482
 GI

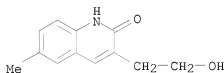


I



II

AB Dihydrofurancarboxamides I were converted into title quinolinones II by reaction with a Lewis acid or by photochem. rearrangement. Among the 7 compds. prepared in 52-79% yield were II (R = H, Me, Cl, R1 = R2 = H; R = R1 = H, R2 = Cl, Me, OMe).
 IT 62480-49-3P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 62480-49-3 CAPLUS
 CN 2(1H)-Quinolinone, 3-(2-hydroxyethyl)-6-methyl- (CA INDEX NAME)



L28 ANSWER 165 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1982:35046 CAPLUS
 DOCUMENT NUMBER: 96:35046
 ORIGINAL REFERENCE NO.: 96:5789a,5792a
 TITLE: Synthesis of benzo[k]phenanthridines: another new approach
 AUTHOR(S): Arisvaran, V.; Ramesh, M.; Rajendran, S. P.; Shanmugam, P.
 CORPORATE SOURCE: Post-Grad. Cent., Madras Univ., Coimbatore, 641 041, India
 SOURCE: Synthesis (1981), (10), 821-3
 CODEN: SYNTBF; ISSN: 0039-7881
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 96:35046
 GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Refluxing quinolines I (R = H, Cl, Me) with PHCHO, HOAc and Ac2O gave II.

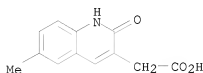
Treating II with aqueous NaOH followed by acidification gave III (R1 = CO2H), decarboxylation of which gave III (R1 = H). Irradiation of III (R1 = H) gave IV (R2 = H), chlorination of which gave V (R2 = H). Irradiation of II in MeOH gave IV (R2 = CO2Me), chlorination of which gave V (R2 = CO2Me).

IT 61020-52-8

RL: RCT (Reactant); RACT (Reactant or reagent)
(condensation of, with benzaldehyde)

RN 61020-52-8 CAPLUS

CN 3-Quinoloneacetic acid, 1,2-dihydro-6-methyl-2-oxo- (CA INDEX NAME)

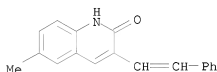


IT 80356-60-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(preparation and cyclization of, benzophenanthridine from)

RN 80356-60-1 CAPLUS

CN 2(1H)-Quinolone, 6-methyl-3-(2-phenylethenyl)- (CA INDEX NAME)



L28 ANSWER 166 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1980:586292 CAPLUS

DOCUMENT NUMBER: 93:186292

ORIGINAL REFERENCE NO.: 93:29695a,29698a

TITLE: Quinoxalines. XII. Synthesis and reactions of

3-methyl-6-nitro-1H-quinoxalin-2-one derivatives

Lippmann, Eberhard; Baumgartl, Monika

Sekt. Chem., Karl-Marx-Univ., Leipzig, DDR-7010, Ger.

Dem. Rep.

SOURCE: Zeitschrift fuer Chemie (1980), 20(2), 58-9

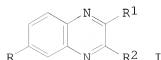
CODEN: ZECEAL; ISSN: 0044-2402

DOCUMENT TYPE: Journal

LANGUAGE: German

OTHER SOURCE(S): CASREACT 93:186292

GI



AB Kroehnke reaction of I (R = NO2, R1 = OH, R2 = Me) gave aldehyde I (R = NO2, R1 = OH, R2 = CHO), which reacted with PhCOH to give I (R = NO2, R1 =

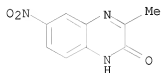
OH, R2 = styryl). Also prepared were I [R = NO₂; R1 = OH, R2 = CH(OH)₂; R1 = OMe, R2 = Me], I (R = H, R1 = OH, Cl; R2 = styryl) and I (R = H, R1 = Cl, R2 = Me).

IT 19801-10-6

RL: RCT (Reactant); RACT (Reactant or reagent)
(Kroehnke reaction of, aldehyde from)

RN 19801-10-6 CAPLUS

CN 2(1H)-Quinoxalinone, 3-methyl-6-nitro- (CA INDEX NAME)

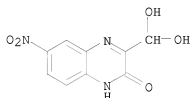


IT 75303-05-8P 75303-06-9P 75303-09-2P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

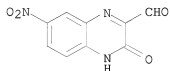
RN 75303-05-8 CAPLUS

CN 2(1H)-Quinoxalinone, 3-(dihydroxymethyl)-6-nitro- (CA INDEX NAME)



RN 75303-06-9 CAPLUS

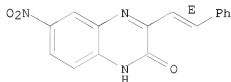
CN 2-Quinoxalinecarboxaldehyde, 3,4-dihydro-3-oxo-7-nitro- (9CI) (CA INDEX NAME)



RN 75303-09-2 CAPLUS

CN 2(1H)-Quinoxalinone, 6-nitro-3-(2-phenylethenyl)-, (E)- (9CI) (CA INDEX NAME)

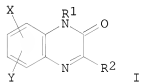
Double bond geometry as shown.



DOCUMENT NUMBER: 92:135453
 ORIGINAL REFERENCE NO.: 92:21965a,21968a
 TITLE: Quinoxalinone compounds useful for expanding the lumina or air passages in mammals
 INVENTOR(S): Hall, Charles M.; Johnson, Herbert G.
 PATENT ASSIGNEE(S): Upjohn Co., USA
 SOURCE: U.S., 8 pp.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4181724	A	19800101	US 1978-940815	19780911
US 4242342	A	19801230	US 1979-44031	19790531
US 4262123	A	19810414	US 1979-44120	19790531

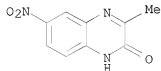
PRIORITY APPLN. INFO.: US 1978-940815 A3 19780911
 OTHER SOURCE(S): CASREACT 92:135453; MARPAT 92:135453
 GI



AB I (R1 = H, Me or Et; R2 = H, Cl-6 alkyl, Ph, PhCH2, carboxyalkyl, alkoxyalkyl, alkoxyalkyl, or haloalkyl; X = H or Cl, Y = H, Cl, or NO2) are prepared as bronchodilators and can be used for treatment of atopic eczema and urticaria. Pharmaceutical formulations are given. A lot of 10,000 tablets was prepared from 1,3-dimethyl-2(1H)-quinoxalene [3149-25-5] 250, CaHPO4 1000, Me cellulose 60, talc 150, starch 200 and Mg stearate 10 g. The tablets can be used for asthma treatment at a dose of 1 tablet every 4-6 h. 3,6,7-Trimethyl-2(1H)-quinoxalinone [28082-86-2] was prepared by condensation of 4,5-dimethyl-o-phenylenediamine [3171-45-7] in TFH with Et pyruvate [617-35-6].

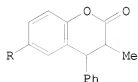
IT 19801-10-6P
 RL: PREP (Preparation)
 (preparation of, for bronchodilating pharmaceuticals)

RN 19801-10-6 CAPLUS
 CN 2(1H)-Quinoxalinone, 3-methyl-6-nitro- (CA INDEX NAME)

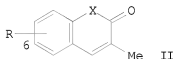


L28 ANSWER 168 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1979:557532 CAPLUS
 DOCUMENT NUMBER: 91:157532
 ORIGINAL REFERENCE NO.: 91:25421a,25424a
 TITLE: Synthesis of 3-methylcoumarins, -thiacoumarins and

-carbostyrils
 AUTHOR(S): Manimaran, T.; Natarajan, M.; Ramakrishnan, V. T.
 CORPORATE SOURCE: Dep. Org. Chem., Univ. Madras, Madras, 600 025, India
 SOURCE: Proceedings - Indian Academy of Sciences, Section A
 (1979), 88A(Pt. 1, No. 2), 125-30
 CODEN: PISAA7; ISSN: 0370-0089
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 91:157532
 GI

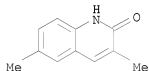


I

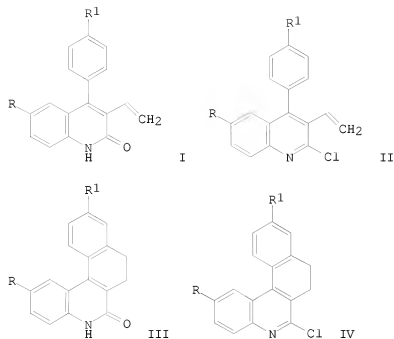


II

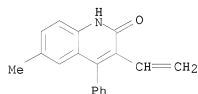
AB Reaction of 4-phenyl-3,4-dihydrocoumarins I (R = Me, Cl) with anhydrous $AlCl_3$
 in PhCl at 120° resulted in dearylation to give II (X = O, R in
 6-position). Thiocoumarins (II; X = S, R = H, 6-Me) and carbostyrils (II;
 X = NH, R = H, 6- or 8-Me or -Cl) were similarly prepared from
 RC6H4XCOCMe:CHPh.
 IT 71568-50-8P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 71568-50-8 CAPLUS
 CN 2(1H)-Quinolinone, 3,6-dimethyl- (CA INDEX NAME)



L28 ANSWER 169 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1979:54798 CAPLUS
 DOCUMENT NUMBER: 90:54798
 ORIGINAL REFERENCE NO.: 90:8761a,8764a
 TITLE: Photolysis of 4-phenyl-3-vinylquinolines; a facile new
 route to the benzo[k]phenanthridine system
 AUTHOR(S): Veeramani, K.; Paramasivam, K.;
 Ramakrishnasubramanian, S.; Shanmugam, P.
 CORPORATE SOURCE: Dep. Chem., Madras Univ. Auton. Post-Grad. Cent.,
 Coimbatore, India
 SOURCE: Synthesis (1978), (11), 855-7
 CODEN: SYNIBF; ISSN: 0039-7881
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 90:54798
 GI

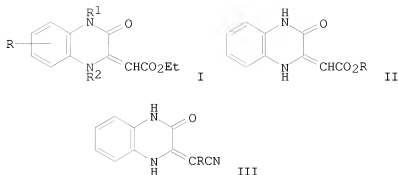


AB Photolysis of I- and II (R = H, Me, Cl; R1 = H, Me) yields III- and IV (R,
 R1 as above), resp., in good to excellent yields.
 IT 61323-37-3
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (photolysis of, benzo[k]phenanthridine system from)
 RN 61323-37-3 CAPLUS
 CN 2(1H)-Quinolinone, 3-ethenyl-6-methyl-4-phenyl- (CA INDEX NAME)



L28 ANSWER 170 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1979:5637 CAPLUS
 DOCUMENT NUMBER: 90:5637
 ORIGINAL REFERENCE NO.: 90:1041a,1044a
 TITLE: Studies in quinoxaline series. Part VIII.
 Ketimine-enamine tautomerism of 2-methylene-3-oxo-
 1,2,3,4-tetrahydroquinoxaline derivatives
 Machacek, Vladimir; Toman, Jaromir; Klicnar, Jiri
 Org. Chem. Dep., Inst. Chem. Technol., Pardubice,
 Czech.
 SOURCE: Collection of Czechoslovak Chemical Communications
 (1978), 43(6), 1634-8
 CODEN: CCCCAC; ISSN: 0366-547X
 DOCUMENT TYPE: Journal
 LANGUAGE: English

GI



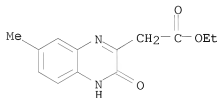
AB The ketimine-enamine equilibrium consts. of 12 compds., including I (R = R1 = R2 = H; R1 = Me, R = R2 = H; R = 6-Cl, 6-NO2, R2 = R1 = H), II (R = Me, Ph), and III (R = H, Me) are determined. Electron donating R in I destabilize the enamine form. The thermodyn., substituent effects, and H-bonding effects on the equilibrium are discussed.

IT 60810-06-2 67557-72-6

RL: PEP (Physical, engineering or chemical process); PRP (Properties); PROC (Process)
(tautomerism of, thermodyn. of)

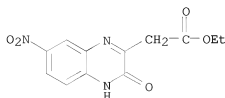
RN 60810-06-2 CAPLUS

CN 2-Quinoxalineacetic acid, 3,4-dihydro-7-methyl-3-oxo-, ethyl ester (CA INDEX NAME)



RN 67557-72-6 CAPLUS

CN 2-Quinoxalineacetic acid, 3,4-dihydro-7-nitro-3-oxo-, ethyl ester (CA INDEX NAME)



L28 ANSWER 171 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1978:509010 CAPLUS

DOCUMENT NUMBER: 89:109010

ORIGINAL REFERENCE NO.: 89:16777a,16780a

TITLE: Studies in the synthesis of quinoline derivatives.
Part VIII. Synthesis of 4:3'-methylenebis(2,2'-
dichloro-4'-methylquinoline) derivatives

AUTHOR(S): Thakore, P. V.; Trivedi, K. N.

CORPORATE SOURCE: Fac. Sci., Maharaja Sayajirao Univ. Baroda, Baroda,
India

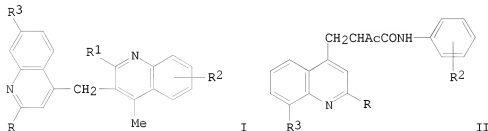
SOURCE: Journal of the Indian Chemical Society (1977), 54(12),
1204-6

DOCUMENT TYPE: CODEN: JICSAH; ISSN: 0019-4522

LANGUAGE: Journal

OTHER SOURCE(S): English

GI: CASREACT 89:109010

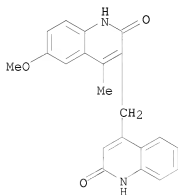


AB Methylenebisquinolines I (R = OH, Cl; R1 = OH; R2 = H, 6-OMe, 8-OMe, 7-Cl, 6-Cl, 6,7-CH:CHCH:CH; R3 = H, Me) were obtained in 40-50% yield by cyclizing quinolylacetates II with concentrated H2SO4. I (R = R1 = Cl; R2 = H, 7-Cl, 8-Me, 6,7-CH:CHCH:CH; R3 = H, Me) were obtained by chlorinating I (R1 = OH). II were obtained in 70-80% yield by treating 4-halomethylquinolines with AcCHNaCONHC6H4R2.

IT 67288-26-0P 67288-27-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

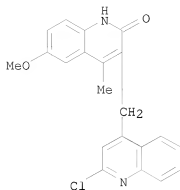
RN 67288-26-0 CAPLUS

CN 2(1H)-Quinolinone, 3-[(1,2-dihydro-2-oxo-4-quinolinyl)methyl]-6-methoxy-4-methyl- (CA INDEX NAME)

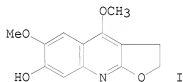


RN 67288-27-1 CAPLUS

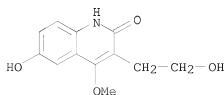
CN 2(1H)-Quinolinone, 3-[(2-chloro-4-quinolinyl)methyl]-6-methoxy-4-methyl-
(CA INDEX NAME)



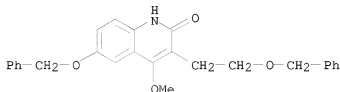
L28 ANSWER 172 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1978:121489 CAPLUS
 DOCUMENT NUMBER: 88:121489
 ORIGINAL REFERENCE NO.: 88:19081a,19084a
 TITLE: Syntheses of heliparvifoline and O-demethylpteleine
 AUTHOR(S): Sekiba, Tetsuya
 CORPORATE SOURCE: Fac. Chem. Eng., Toyama Tech. Coll., Toyama, Japan
 SOURCE: Bulletin of the Chemical Society of Japan (1978),
 51(1), 325-6
 CODEN: BCSJA8; ISSN: 0009-2673
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI



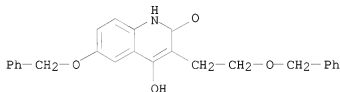
AB 2,3-Dihydroheliparvifoline (I) was obtained from 4-methoxy-3-benzyloxyaniline by condensation with di-Et (2-benzyloxyethyl)malonate, and by subsequent methylation, debenylation, and then cyclodehydration. Benzyl ether of I was dehydrogenated and then treated with hydrochloric acid to give heliparvifoline.
 IT 65907-22-4P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and cyclodehydration of)
 RN 65907-22-4 CAPLUS
 CN 2(1H)-Quinolinone, 6-hydroxy-3-(2-hydroxyethyl)-4-methoxy- (CA INDEX NAME)



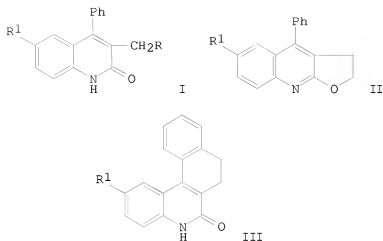
IT 65907-20-2P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (preparation and debenzylation of)
 RN 65907-20-2 CAPLUS
 CN 2(1H)-Quinolinone, 4-methoxy-6-(phenylmethoxy)-3-[2-(phenylmethoxy)ethyl]-
 (CA INDEX NAME)



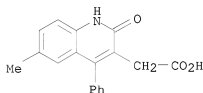
IT 65907-18-8P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (preparation and methylation of)
 RN 65907-18-8 CAPLUS
 CN 2(1H)-Quinolinone, 4-hydroxy-6-(phenylmethoxy)-3-[2-(phenylmethoxy)ethyl]-
 (CA INDEX NAME)



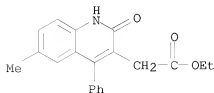
L28 ANSWER 173 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1978:50624 CAPLUS
 DOCUMENT NUMBER: 88:50624
 ORIGINAL REFERENCE NO.: 88:7981a,7984a
 TITLE: Furoquinolines; part XI. A novel aluminum
 chloride-catalyzed rearrangement of
 4-phenyl-2,3-dihydrofuro[2,3-b]quinolines. A new
 route to the 5,6-benzophenanthridine system
 Paramasivam, K.; Ramasamy, K.; Shanmugam, P.
 Dep. Chem., Madras Univ. Post Grad. Cent., Coimbatore,
 India
 Synthesis (1977), (11), 768-70
 CODEN: SYNTBF; ISSN: 0039-7881
 Journal
 AUTHOR(S): English
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 88:50624
 GI



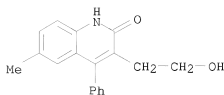
- AB Quinolines I (R = CO₂H; R₁ = H, Me, Cl, Br) were prepared in 79-85% yield from the resp. 2-aminobenzophenones. I (R = CO₂H) were converted to I (R = CO₂Et, CH₂OH) by esterification and reduction with LiAlH₄, resp. Treatment of I (R = CH₂OH) with polyphosphoric acid gave the furoquinolines II, which were treated with AlCl₃ in CH₂Cl₂ to give 60-75% III. 9-Chlorophenanthridines were obtained in 26-32% yield by treatment of III with POC1₃.
- IT 65418-08-8P 65418-22-6P 65418-23-7P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and reactions of)
- RN 65418-08-8 CAPLUS
- CN 3-Quinoloneacetic acid, 1,2-dihydro-6-methyl-2-oxo-4-phenyl- (CA INDEX NAME)



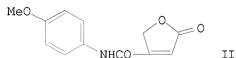
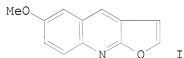
- RN 65418-22-6 CAPLUS
- CN 3-Quinoloneacetic acid, 1,2-dihydro-6-methyl-2-oxo-4-phenyl-, ethyl ester (CA INDEX NAME)



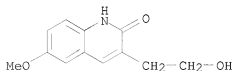
- RN 65418-23-7 CAPLUS
- CN 2(1H)-Quinolone, 3-(2-hydroxyethyl)-6-methyl-4-phenyl- (CA INDEX NAME)



L28 ANSWER 174 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1977:535153 CAPLUS
 DOCUMENT NUMBER: 87:135153
 ORIGINAL REFERENCE NO.: 87:21449a,21452a
 TITLE: Furoquinolines, part 10. Synthesis of
 furo[2,3-b]quinolines
 AUTHOR(S): Shanmugam, P.; Thiruvengadam, T. K.; Ramasamy, K.
 CORPORATE SOURCE: Dep. Chem., Madras Univ. Ext. Cent., Coimbatore, India
 SOURCE: Monatshefte fuer Chemie (1977), 108(3), 725-33
 CODEN: MOCMB7; ISSN: 0026-9247
 DOCUMENT TYPE: Journal
 LANGUAGE: German
 OTHER SOURCE(S): CASREACT 87:135153
 GI

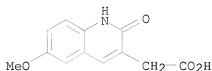


AB A new route to furo[2,3-b]quinolines, e.g. I, was developed based on
 N-arylaconamides, e.g. II. The anilides when heated with polyphosphoric
 acid underwent intramol. cyclization to give 1,2-dihydro-2-oxoquinoline-3-
 acetic acids which were reduced and cyclized to give dihydrofuro[2,3-
 b]quinolines. Dehydrogenation of the dihydro derivs. gave the
 furo[2,3-b]quinolines.
 IT 62480-48-2P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (preparation and cyclization of, dihydrofuroquinolines from)
 RN 62480-48-2 CAPLUS
 CN 2(1H)-Quinolinone, 3-(2-hydroxyethyl)-6-methoxy- (CA INDEX NAME)



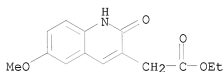
IT 64124-71-6P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (preparation and reduction of)

RN 64124-71-6 CAPLUS
 CN 3-Quinoloneacetic acid, 1,2-dihydro-6-methoxy-2-oxo- (CA INDEX NAME)

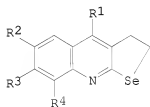


IT 64124-39-6P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)

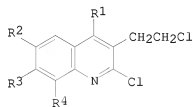
RN 64124-39-6 CAPLUS
 CN 3-Quinoloneacetic acid, 1,2-dihydro-6-methoxy-2-oxo-, ethyl ester (CA INDEX NAME)



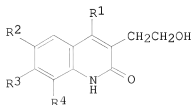
L28 ANSWER 175 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1977:171294 CAPLUS
 DOCUMENT NUMBER: 86:171294
 ORIGINAL REFERENCE NO.: 86:26901a,26904a
 TITLE: Selenium heterocycles; Part I. Synthesis of
 2,3-dihydroselenolo[2,3-b]quinolines
 Shanmugam, P.; Raja, T. K.
 AUTHOR(S): Postgrad. Ext. Cent., Madras Univ., Tamil Nadu, India
 CORPORATE SOURCE: Synthesis (1977), (2), 117-18
 SOURCE: CODEN: SYNTBF; ISSN: 0039-7881
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI



I



II



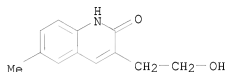
III

AB Selenoquinolines I (R1, R2, R3, R4 given; Me, H, H, H; H, Me, H, H; Me, H, H, MeO; H, H, H, H) were prepared in 69-82% yield by heating quinolines II with NaSeH in EtOH. II were prepared in 65-96% yield by heating III with POC13.

IT 62480-49-3
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (reaction of, with phosphorus oxychloride)

RN 62480-49-3 CAPLUS

CN 2(1H)-Quinolinone, 3-(2-hydroxyethyl)-6-methyl- (CA INDEX NAME)



L28 ANSWER 176 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1977:157046 CAPLUS

DOCUMENT NUMBER: 86:157046

ORIGINAL REFERENCE NO.: 86:24675a,24678a

TITLE: Disperse dyes

INVENTOR(S): Schwander, Hansrudolf; Burdeska, Kurt; Zickendraht, Christian

PATENT ASSIGNEE(S): Ciba-Geigy A.-G., Switz.

SOURCE: Ger. Offen., 54 pp.
 CODEN: GWXXBX

DOCUMENT TYPE: Patent

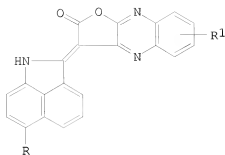
LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2606716	A1	19760902	DE 1976-2606716	19760219
DE 2606716	C2	19860430		
CH 615211	A5	19800115	CH 1975-2239	19750221
NL 7600768	A	19760824	NL 1976-768	19760126
US 4056528	A	19771101	US 1976-657771	19760213
FR 2301570	A1	19760917	FR 1976-4445	19760218
FR 2301570	B1	19780324		
BR 7601040	A	19760914	BR 1976-1040	19760219
JP 51107329	A	19760922	JP 1976-16579	19760219
JP 59022749	B	19840529		
CA 1058177	A1	19790710	CA 1976-246097	19760219
BE 838745	A1	19760820	BE 1976-164463	19760220
ES 445340	A1	19770601	ES 1976-445340	19760220
GB 1543362	A	19790404	GB 1976-6832	19760220
PRIORITY APPLN. INFO.:			CH 1975-2239	A 19750221

GI



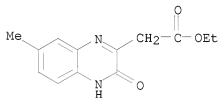
I

AB Dyes (I, R = H, MeO, Br, SO₂NH(CH₂)₃OCHMe₂; R₁ = H, MeO, Me, SO₂NH(CH₂)₃OCHMe₂) were prepared and used to dye acetate and polyester fibers fast red shades. Thus, POCl₃ was added to a mixture of naphthostyryl and Et (3-oxo-3,4-dihydro-2-quinoxalinylyl)acetate in PhCl at 100° to give I (R = R₁ = H) [60809-87-2]. The other I were similarly prepared

IT 60810-06-2
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with naphthostyryl derivative)

RN 60810-06-2 CAPLUS

CN 2-Quinoxalineacetic acid, 3,4-dihydro-7-methyl-3-oxo-, ethyl ester (CA INDEX NAME)



L28 ANSWER 177 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1977:155542 CAPLUS

DOCUMENT NUMBER: 86:155542

ORIGINAL REFERENCE NO.: 86:24427a,24430a

TITLE: Thienoquinolines. Part V. An improved synthesis of 2,3-dihydrothieno[2,3-b]quinoline and its derivatives Shanmugam, P.; Thiruvengadam, T. K.; Soundararajan, N. Postgrad. Cent., Madras Univ., Coimbatore, India Organic Preparations and Procedures International (1976), 8(6), 279-82

AUTHOR(S):

CORPORATE SOURCE:

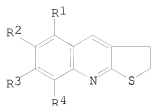
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DOCUMENT TYPE: Journal

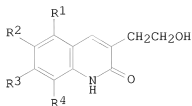
LANGUAGE: English

OTHER SOURCE(S): CASREACT 86:155542

GI



I



II

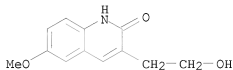
AB The title compds. I (R1, R2 = H, MeO, Me, Cl, R3 = H, Cl, R4 = H, MeO, Me) were obtained in 51-100% yields by cyclization of quinolones II by P2S5 in refluxing pyridine 4-6 h.

IT 62480-48-2 62480-49-3

RL: RCT (Reactant); RACT (Reactant or reagent)
(cyclization of, by phosphorus pentasulfide)

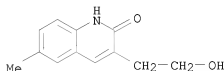
RN 62480-48-2 CAPLUS

CN 2(1H)-Quinolinone, 3-(2-hydroxyethyl)-6-methoxy- (CA INDEX NAME)



RN 62480-49-3 CAPLUS

CN 2(1H)-Quinolinone, 3-(2-hydroxyethyl)-6-methyl- (CA INDEX NAME)



L28 ANSWER 178 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1977:155538 CAPLUS

DOCUMENT NUMBER: 86:155538

ORIGINAL REFERENCE NO.: 86:24426h,24427a

TITLE: Thienoquinolines, IV. Synthesis of
thieno[2,3-b]quinolines

AUTHOR(S): Shanmugam, P.; Kanakarajan, K.; Soundararajan, N.

CORPORATE SOURCE: Postgrad. Cent., Madras Univ., Coimbatore, India

SOURCE: Zeitschrift fuer Naturforschung, Teil B: Anorganische

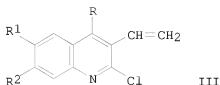
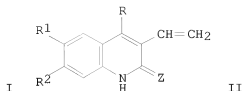
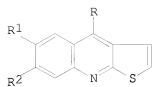
Chemie, Organische Chemie (1976), 31B(12), 1685-8

CODEN: ZNBAD2; ISSN: 0340-5087

DOCUMENT TYPE: Journal

LANGUAGE: English

GI



AB Eight thieno[2,3-b]quinolines (I, R = Me, Ph, C₆H₄Cl-o; R₁ = Cl, Br, NO₂, Me; R₂ = Cl, H, or R₁R₂ = OCH₂O) were prepared by cyclization of the quinolinethiones II (Z = S), obtained by treating II (Z = O) with POC13 and the resulting chloroquinolines III with thiourea.

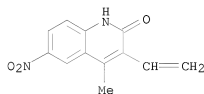
IT 62452-21-5P 62452-23-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and chlorination of)

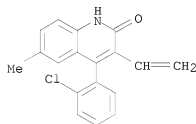
RN 62452-21-5 CAPLUS

CN 2(1H)-Quinolinone, 3-ethenyl-4-methyl-6-nitro- (CA INDEX NAME)



RN 62452-23-7 CAPLUS

CN 2(1H)-Quinolinone, 4-(2-chlorophenyl)-3-ethenyl-6-methyl- (CA INDEX NAME)



L28 ANSWER 179 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1977:29686 CAPLUS

DOCUMENT NUMBER: 86:29686

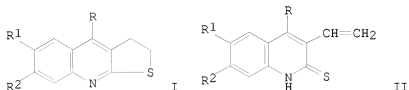
ORIGINAL REFERENCE NO.: 86:4747a, 4750a

TITLE: Thienoquinolines; Part III. Synthesis of 2,3-dihydrothieno[2,3-b]quinolines

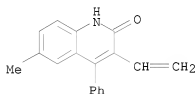
AUTHOR(S): Shanmugam, P.; Kanakarajan, K.; Soundararajan, N.

CORPORATE SOURCE: Dep. Chem., Univ. Madras, Coimbatore, India

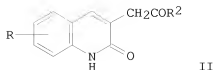
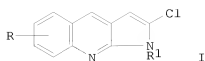
SOURCE: Synthesis (1976), (9), 595-6
 CODEN: SYNTBF; ISSN: 0039-7881
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 86:29686
 GI



AB Six thieno[2,3-b]quinolines I (R = Me, Ph; R1 = H, Me, MeO, Br; R2 = H, Me, Cl, MeO) were prepared in 9-46% yield by reaction of II with NaOAc. II (R, R1, R2 given; Ph, Me, H; Ph, Br, H) are new compds. and were prepared by known procedures from 5,2-R1(H2N)C6H3COPh.
 IT 61323-37-3P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 61323-37-3 CAPLUS
 CN 2(1H)-Quinolinone, 3-ethenyl-6-methyl-4-phenyl- (CA INDEX NAME)



L28 ANSWER 180 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1976:592597 CAPLUS
 DOCUMENT NUMBER: 85:192597
 ORIGINAL REFERENCE NO.: 85:30799a,30802a
 TITLE: Pyrroloquinolines. Part 1. Synthesis of 1-aryl-2-chloro-1H-pyrrolo[2,3-b]quinolines Shanmugam, P.; Thiruvengadam, T. K.; Ramakrishnan, V. T.
 AUTHOR(S):
 CORPORATE SOURCE: Ext. Cent., Madras Univ., Coimbatore, India
 SOURCE: Synthesis (1976), 6, 393-4
 CODEN: SYNTBF; ISSN: 0039-7881
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 85:192597
 GI



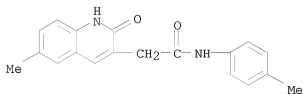
AB The title pyrrolo[2,3-b]quinolines I (R = H, R1 = p-MeC6H4, p-MeOC6H4; R = 6-Me, 8-Me, R1 = p-MeC6H4) were prepared by conversion of the oxoquinolineacetates II (same R; R2 = OEt) to the corresponding anilides II (same R; R2 = NHC6H4Me-p, NHC6H4OMe-p) with R1N(Mg)I2, then cyclization of the anilides with POCl3.

IT 61020-57-3P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and cyclization with phosphoryl chloride)

RN 61020-57-3 CAPLUS

CN 3-Quinolineacetamide, 1,2-dihydro-6-methyl-N-(4-methylphenyl)-2-oxo- (CA INDEX NAME)

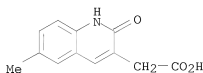


IT 61020-52-8P 61020-54-0P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and formation of pyrroloquinoline from)

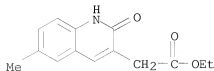
RN 61020-52-8 CAPLUS

CN 3-Quinolineacetic acid, 1,2-dihydro-6-methyl-2-oxo- (CA INDEX NAME)



RN 61020-54-0 CAPLUS

CN 3-Quinolineacetic acid, 1,2-dihydro-6-methyl-2-oxo-, ethyl ester (CA INDEX NAME)



L28 ANSWER 181 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1976:407248 CAPLUS

DOCUMENT NUMBER: 85:7248

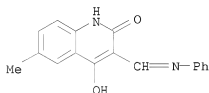
ORIGINAL REFERENCE NO.: 85:1175a, 1178a

TITLE: Bisazomethine-metal complex dyes
 INVENTOR(S): L'Eplattenier, Francois; Vuitel, Laurent; Pugin, Andre
 PATENT ASSIGNEE(S): Ciba-Geigy A.-G., Switz.
 SOURCE: Ger. Offen., 26 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2533676	A1	19760219	DE 1975-2533676	19750728
DE 2533676	C2	19860102		
CH 596276	A5	19780315	CH 1974-10585	19740731
DK 7502888	A	19760201	DK 1975-2888	19750625
US 4008225	A	19770215	US 1975-599444	19750728
CA 1052782	A1	19790417	CA 1975-232451	19750729
BE 831902	A1	19760130	BE 1975-158751	19750730
NL 7509090	A	19760203	NL 1975-9090	19750730
FR 2280693	A1	19760227	FR 1975-23753	19750730
ES 439833	A1	19770616	ES 1975-439833	19750730
JP 51039726	A	19760402	JP 1975-94137	19750731
BR 7504896	A	19760803	BR 1975-4896	19750731
AU 7583570	A	19770203	AU 1975-83570	19750731
CS 185238	B2	19780915	CS 1975-5371	19750731
			CH 1974-10585	A 19740731

PRIORITY APPLN. INFO.:

GI For diagram(s), see printed CA Issue.
 AB Ni, Cu, and Zn bisazomethines (I, A = quinoline, pyridine, pyrazole, triazole, isoindole, naphthalene, benzopyran residue; Z = o-C6H4, substituted o-C6H4, CH2CH2, benzimidazole-5,6-diyl; M = Ni, Cu, Zn) used as pigments for PVC [9002-86-2] were prepared in 37-100% yield by condensation of 2 moles of an o-hydroxyarylaldehyde derivative with 1 mole of Z(NH2)2 in the presence of M2+.
 IT 59313-33-6P
 RL: IMF (Industrial manufacture); PREP (Preparation)
 (preparation of)
 RN 59313-33-6 CAPLUS
 CN 2(1H)-Quinolinone, 4-hydroxy-6-methyl-3-[(phenylimino)methyl]- (CA INDEX NAME)



L28 ANSWER 182 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1976:180102 CAPLUS

DOCUMENT NUMBER: 84:180102

ORIGINAL REFERENCE NO.: 84:29187a,29190a

TITLE: Furoquinolines, part 9. Synthesis of furo[2,3-b]quinolines

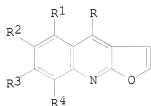
AUTHOR(S): Shanmugam, P.; Palaniappan, R.; Soundararajan, N.; Thiruvengadam, T. K.; Kanakarajan, K.

CORPORATE SOURCE: Extens. Cent., Madras Univ., Coimbatore, India

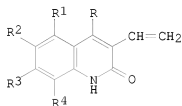
SOURCE: Monatshefte fuer Chemie (1976), 107(1), 259-69

DOCUMENT TYPE:
LANGUAGE:
OTHER SOURCE(S):
GI

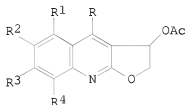
CODEN: MOCMB7; ISSN: 0026-9247
Journal
German
CASREACT 84:180102



I



II



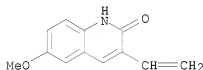
III

AB The furo[2,3-b]quinolines I (R = H, Me; R1-R4 = H, MeO, Cl, Br; R2R3 = OCH2O) was prepared by acetoxy cyclization of the vinylquinolones II by treating with iodine in the presence of silver acetate and dehydroacetoxylation of the 3-acetoxy-2,3-dihydrofuro[2,3-b]quinoline III with phosphoric or polyphosphoric acid.

IT 59236-20-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and cyclization of, furoquinolines from)

RN 59236-20-3 CAPLUS

CN 2(1H)-Quinolinone, 3-ethenyl-6-methoxy- (CA INDEX NAME)



L28 ANSWER 183 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1976:88992 CAPLUS

DOCUMENT NUMBER: 84:88992

ORIGINAL REFERENCE NO.: 84:14521a,14524a

TITLE: Absorption spectra of cyanacet arylamides, dihydroxyquinolines, and their methylene bis-derivatives

AUTHOR(S): Trivedi, J. M.; Meththa, C. M.

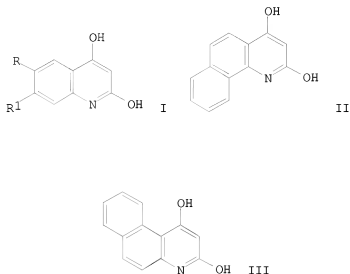
CORPORATE SOURCE: Fac. Sci., Maharaja Sajirao Univ. Baroda, Baroda, India

SOURCE: Journal of the Indian Chemical Society (1975), 52(8), 708-10

CODEN: JICSAH; ISSN: 0019-4522

DOCUMENT TYPE:
LANGUAGE:
GI

Journal
English

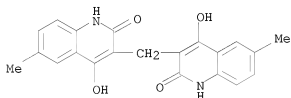


AB The uv of six NCCH₂CONHR (R = e.g., p-ClC₆H₄, p-MeC₆H₄, α-naphthyl, β-naphthyl) and their methylenebis- derivs. and of I (R₁ = H; R = Cl, Me; R = R₁ = Me), II, and III and their 3,3'-bis-methylene derivs. exhibited a hyperchromic effect in which the extinction coeffs. of the methylenebis compds. were always larger than those of the parent mols.

IT 43015-59-4
RL: PRP (Properties)
(uv and extinction coeffs. of dihydroxyquinoline in relation to uv of)

RN 43015-59-4 CAPLUS

CN 2(1H)-Quinolinone, 3,3'-methylenebis[4-hydroxy-6-methyl- (CA INDEX NAME)



L28 ANSWER 184 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1975:461667 CAPLUS

DOCUMENT NUMBER: 83:61667

ORIGINAL REFERENCE NO.: 83:9741a,9744a

TITLE: Azomethine pigments

INVENTOR(S): L'Eplattenier, Francois; Pugin, Andre; Vuitel, Laurent

PATENT ASSIGNEE(S): Ciba-Geigy A.-G., Switz.

SOURCE: Ger. Offen., 66 pp.
CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2442315	A1	19750313	DE 1974-2442315	19740904
DE 2442315	C2	19870102		
CH 581683	A5	19761115	CH 1973-12889	19730907
US 3974149	A	19760810	US 1974-502246	19740830
NL 7411751	A	19750311	NL 1974-11751	19740904
JP 50055621	A	19750515	JP 1974-102457	19740905
JP 58050261	B	19831109		
GB 1455369	A	19761110	GB 1974-38775	19740905
CS 187422	B2	19790131	CS 1974-6111	19740905
CA 1050992	A1	19790320	CA 1974-208575	19740905
BE 819627	A1	19750306	BE 1974-148278	19740906
FR 2243235	A1	19750404	FR 1974-30275	19740906
FR 2243235	B1	19790601		
AU 7473062	A	19760311	AU 1974-73062	19740906
ES 429803	A1	19761001	ES 1974-429803	19740906
US 4024132	A	19770517	US 1976-693388	19760607
PRIORITY APPLN. INFO.:			CH 1973-12889	A 19730907
			US 1974-502246	A3 19740830

GI For diagram(s), see printed CA Issue.

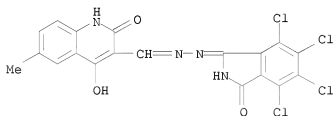
AB Azomethines (I, R, R1 = H, Cl; R2, R3 = H, Cl, MeO; A = naphthalene, quinoline, isoquinoline, pyrazole, coumarin, pyrimidine benzimidazolopyridine residues) were prepared and were heated with Ni, Cu, Cd, and Zn salt to give the corresponding metallized azomethine pigments which were used for coloring PVC [9002-86-2] and in printing inks. Thus, a mixture of (4,5,6,7-tetrachloroisindolin-1-on-3-ylidene)hydrazine [41595-15-7] and 1,2,3-OHC(HO)ClO₅CONHPh [52084-73-8] in Me Cellosolve was refluxed to give the azomethine derivative which was treated with Ni(OAc)₂ in Me Cellosolve to give azomethine pigment (II) [55644-37-6]. The other azomethine pigments were similarly prepared

IT 55566-86-4P 55566-92-2P

RL: IMF (Industrial manufacture); PREP (Preparation)
(preparation of)

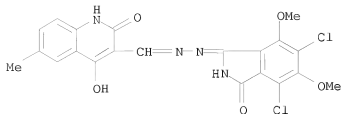
RN 55566-86-4 CAPLUS

CN 3-Quinolinecarboxaldehyde, 2,4-dihydroxy-6-methyl-, (4,5,6,7-tetrachloro-1-oxo-1H-isindol-3-yl)hydrazone (9CI) (CA INDEX NAME)

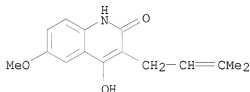


RN 55566-92-2 CAPLUS

CN 3-Quinolinecarboxaldehyde, 2,4-dihydroxy-6-methyl-, (5,7-dichloro-4,6-dimethoxy-1-oxo-1H-isindol-3-yl)hydrazone (9CI) (CA INDEX NAME)



L28 ANSWER 185 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1975:443554 CAPLUS
 DOCUMENT NUMBER: 83:43554
 ORIGINAL REFERENCE NO.: 83:6907a,6910a
 TITLE: Synthesis of haplamine
 AUTHOR(S): Venturella, Pietro; Bellino, Aurora; Piozzi, Franco
 CORPORATE SOURCE: Inst. Org. Chem., Univ. Palermo, Palermo, Italy
 SOURCE: Heterocycles (1975), 3(5), 367-70
 CODEN: HTCYAM; ISSN: 0385-5414
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI For diagram(s), see printed CA Issue.
 AB 4-Hydroxy-6-methoxy-2-quinolone was monoalkylated by Me2C:CHCH2Br and then cyclized by dichlorodicyanobenzoquinone to give haplamine (I).
 IT 56470-53-2P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and cyclization of)
 RN 56470-53-2 CAPLUS
 CN 2(1H)-Quinolone, 4-hydroxy-6-methoxy-3-(3-methyl-2-butenyl)- (9CI) (CA INDEX NAME)



L28 ANSWER 186 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1975:410531 CAPLUS
 DOCUMENT NUMBER: 83:10531
 ORIGINAL REFERENCE NO.: 83:1773a,1776a
 TITLE: Synthetic application of lithiation reactions. VI. New synthesis of linear furoquinoline alkaloids
 AUTHOR(S): Narasimhan, N. S.; Mali, R. S.
 CORPORATE SOURCE: Dep. Chem., Univ. Poona, Poona, India
 SOURCE: Tetrahedron (1974), 30(23/24), 4153-7
 CODEN: TETRAB; ISSN: 0040-4020
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 83:10531
 GI For diagram(s), see printed CA Issue.
 AB Lithiated 2,4-dimethoxyquinoline reacted with PhNMeCHO to give the formylquinoline I which on Wittig reaction with Ph3P+CH2OMe Cl- followed by acid hydrolysis gave quinolinylacetaldehyde II. Cyclization of II with

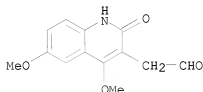
orthophosphoric acid and P2O5 gave dictamnine (III). Alkaloids ptelein (IV), evolitrine (V), and γ -faragine (VI) were prepared similarly from the corresponding methoxyquinolines.

IT 55934-29-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and cyclization of)

RN 55934-29-7 CAPLUS

CN 3-Quinolinesacetaldehyde, 1,2-dihydro-4,6-dimethoxy-2-oxo- (CA INDEX NAME)



L28 ANSWER 187 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1973:478563 CAPLUS

DOCUMENT NUMBER: 79:78563

ORIGINAL REFERENCE NO.: 79:12741a,12744a

TITLE: Synthesis of methylenebis(2,4-dihydroxyquinolines)

AUTHOR(S): Trivedi, J. M.; Mehta, C. M.

CORPORATE SOURCE: Fac. Sci., Maharaja Sayafirao Univ. Baroda, Baroda, India

SOURCE: Journal of the Indian Chemical Society (1973), 50(3), 231-2

CODEN: JICSAH; ISSN: 0019-4522

DOCUMENT TYPE: Journal

LANGUAGE: English

GI For diagram(s), see printed CA Issue.

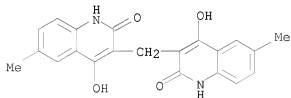
AB Methylenebis[quinolinediols] (I, R-R3 = H; R1, R3 = Cl, Me, R, R2, = H; R1, R2 = Me, R, R3 = H; RR1, R2R3 = benzo) were prepared. Thus, NCCH2CONHPh was treated with HOCH2SO2Na in MeOH to give CH2[CH(CN)CONHPh]2 which on heating with polyphosphoric acid gave I (R-R3 = H).

IT 43015-59-4P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 43015-59-4 CAPLUS

CN 2(1H)-Quinolone, 3,3'-methylenebis[4-hydroxy-6-methyl- (CA INDEX NAME)



L28 ANSWER 188 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN

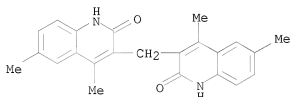
ACCESSION NUMBER: 1973:477633 CAPLUS

DOCUMENT NUMBER: 79:77633

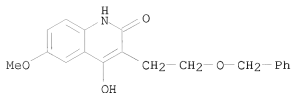
ORIGINAL REFERENCE NO.: 79:12593a,12596a

TITLE: Absorption spectra of acetoacetarilamides, hydroxyquinolines, and their methylene bis-derivatives

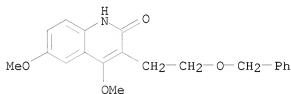
AUTHOR(S): Patel, G. H.; Mehta, C. M.; Vaidya, B. K.
 CORPORATE SOURCE: Chem. Dep., Maharaja Sayajirao Univ. Baroda, Baroda, India
 SOURCE: Journal of the Indian Chemical Society (1973), 50(3), 184-7
 CODEN: JICSAH; ISSN: 0019-4522
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI For diagram(s), see printed CA Issue.
 AB The UV spectra of N-aryl acetoacetamides, MeCOCH₂CONHR (I, R = aryl) and substituted 2-hydroxyquinolines (II) were compared resp. with their α,α' -methylene-(III) and 3,3'-methylene-(IV) bis-analogs. The UV spectra of III and IV showed a hyperchromic effect with respect to I and II. I studied included (R given): Ph, 2-MeC₆H₄, 1-naphthyl. II studied included (R, R₁ and R₂ given): 4-Me, H, H; 4-Me, 6-Me, H; and 4-Me, 6-Me, 8-Me.
 IT 42414-31-3
 RL: PRP (Properties)
 (UV spectra of, effect of methylene on)
 RN 42414-31-3 CAPLUS
 CN 2(1H)-Quinolinone, 3,3'-methylenebis[4,6-dimethyl- (CA INDEX NAME)]



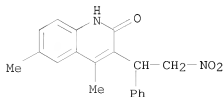
L28 ANSWER 189 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1973:124782 CAPLUS
 DOCUMENT NUMBER: 78:124782
 ORIGINAL REFERENCE NO.: 78:20059a,20062a
 TITLE: New syntheses of maculosidine and pteleine
 AUTHOR(S): Sekiba, Tetsuya
 CORPORATE SOURCE: Fac. Chem. Eng., Toyama Tech. Coll., Toyama, Japan
 SOURCE: Bulletin of the Chemical Society of Japan (1973), 46(2), 577-80
 CODEN: BCSJA8; ISSN: 0009-2673
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI For diagram(s), see printed CA Issue.
 AB 2,3-Dihydromaculosidine and 2,3-dihydropteleine were obtained from 2,4-dimethoxy- and 4-methoxy-aniline by condensation with diethyl β -benzyloxyethylmalonate, followed by methylation and subsequent cyclodebenzylation with polyphosphoric acid. The dehydrogenation of the dihydro compds. with 2,3-dichloro-5,6-dicyanobenzoquinone gave maculosidine (I) and pteleine (II) in relatively high yields. Similarly, evolitrine (III) and γ -fagarine (IV) were also prepared
 IT 41478-42-6P 41478-47-1P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 41478-42-6 CAPLUS
 CN 2(1H)-Quinolinone, 4-hydroxy-6-methoxy-3-[2-(phenylmethoxy)ethyl]- (CA INDEX NAME)



RN 41478-47-1 CAPLUS
 CN 2(1H)-Quinolinone, 4,6-dimethoxy-3-[2-(phenylmethoxy)ethyl]- (CA INDEX NAME)

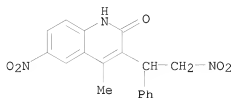


L28 ANSWER 190 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1972:551840 CAPLUS
 DOCUMENT NUMBER: 77:151840
 ORIGINAL REFERENCE NO.: 77:24959a,24962a
 TITLE: Adducts from acetoacetanilides and 2-nitrostyrenes and their cyclization
 AUTHOR(S): Ali, Mohamed I.; Abou-State, M. Amine; Hassan, Nabil M.
 CORPORATE SOURCE: Fac. Sci., Univ. Cairo, Giza, Egypt
 SOURCE: Indian Journal of Chemistry (1972), 10(4), 358-60
 CODEN: IJOCAP; ISSN: 0019-5103
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI For diagram(s), see printed CA Issue.
 AB Fifteen RC6H4CH(CH2NO2)CHAcCONHC6H4R1 [I, R = H, p-MeO, 3,4-(CH2O2), R1 = H, p-Me, halo, CO2H, NO2, p-MeO] were prepared from AcCH2CONHC6H4R1 with RC6H4CH:CHNO2 in NaOEt-EtOH or Et3N-C6H6. I were cyclized with H2SO4-H3PO4 to give 35-54% quinolones (II), not indene derivs. (III).
 IT 38068-55-2P 38070-84-7P 38070-85-8P
 38070-87-0P 38070-88-1P 38070-90-5P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 38068-55-2 CAPLUS
 CN 2(1H)-Quinolinone, 4,6-dimethyl-3-(2-nitro-1-phenylethyl)- (CA INDEX NAME)



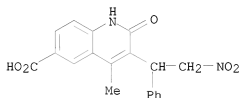
RN 38070-84-7 CAPLUS

CN 2(1H)-Quinolinone, 4-methyl-6-nitro-3-(2-nitro-1-phenylethyl)- (CA INDEX NAME)



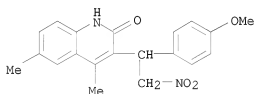
RN 38070-85-8 CAPLUS

CN 6-Quinolinecarboxylic acid, 1,2-dihydro-4-methyl-3-(2-nitro-1-phenylethyl)-2-oxo- (CA INDEX NAME)



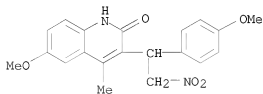
RN 38070-87-0 CAPLUS

CN 2(1H)-Quinolinone, 3-[1-(4-methoxyphenyl)-2-nitroethyl]-4,6-dimethyl- (CA INDEX NAME)



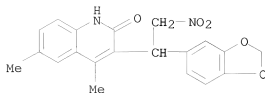
RN 38070-88-1 CAPLUS

CN 2(1H)-Quinolinone, 6-methoxy-3-[1-(4-methoxyphenyl)-2-nitroethyl]-4-methyl- (CA INDEX NAME)

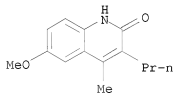


RN 38070-90-5 CAPLUS

CN 2(1H)-Quinolinone, 3-[1-(1,3-benzodioxol-5-yl)-2-nitroethyl]-4,6-dimethyl- (CA INDEX NAME)



L28 ANSWER 191 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1972:501419 CAPLUS
 DOCUMENT NUMBER: 77:101419
 ORIGINAL REFERENCE NO.: 77:16715a,16718a
 TITLE: Synthesis of quinoline derivatives. III. Synthesis of furoquinolines
 AUTHOR(S): Chudgar, R. J.; Trivedi, K. N.
 CORPORATE SOURCE: Dep. Chem., M. S. Univ. Baroda, Baroda, India
 SOURCE: Journal of the Indian Chemical Society (1972), 49(5), 513-18
 CODEN: JICSAH; ISSN: 0019-4522
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI For diagram(s), see printed CA Issue.
 AB 2-Methyl-3-allyl-4-quinolinol on ozonolysis followed by hydrogenation gave 2-methyl-3-formylimethyl-4-quinolinol, which on cyclization with polyphosphoric acid gave 4-methylfuro[3,2-c]quinoline I (R = R1 = H). Similarly 2,8-dimethyl- and 6-methoxy-2-methyl-3-allyl-4-quinolinol gave 4,6-dimethyl- and 8-methoxy-4-methylfuro[3,2-c]quinoline (I, R = H, R1 = Me; R = OMe, R1 = H), resp. Several substituted α -allylacetoacetyl-amides (II) were cyclized with H2SO4 to give 2,3-dihydro-2,4-dimethylfuro-[2,3-b]quinolines (III, R = 6-MeO, benzo[h], 5,8-dimethyl, 6-Cl, 8-Me). II hydrogenated on Pd/C gave α -propylacetoacetyl-amides which underwent cyclization with H2SO4 to give 4-methyl-3-propylcarbostyryl derivs.
 IT 36797-23-6P
 RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)
 RN 36797-23-6 CAPLUS
 CN 2(1H)-Quinolinone, 6-methoxy-4-methyl-3-propyl- (CA INDEX NAME)



L28 ANSWER 192 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1972:434387 CAPLUS
 DOCUMENT NUMBER: 77:34387
 ORIGINAL REFERENCE NO.: 77:5727a,5730a
 TITLE: Synthesis of quinoline derivatives. VI. Synthesis of pyranoquinolines and quinolinolactones
 AUTHOR(S): Chudgar, R. J.; Trivedi, K. N.
 CORPORATE SOURCE: Fac. Sci., Maharaja Sayajirao Univ. Baroda, Baroda, India

SOURCE: Journal of the Indian Chemical Society (1972), 49(1), 41-7
 CODEN: JICSAH; ISSN: 0019-4522

DOCUMENT TYPE: Journal

LANGUAGE: English

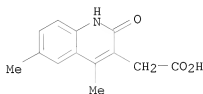
GI For diagram(s), see printed CA Issue.

AB The Perkin reaction of substituted 3-formyl-4-hydroxyquinolines with Ac₂O and Et₃N gave pyrano [3,2-c] quinoline (I, R₁ = R₃ = H, R₂ = Me; R₁ = H, R₂ = R₃ = Me). Similarly, 3-formyl-4-hydroxyquinolines, Ac₂O, Et₃N, and PhCH₂CO₂H gave I (R₁ = Ph, R₂ = Me, R₃ = H; R₁ = Ph, R₂ = R₃ = Me). Condensation of the Na salt of ArNHCOCH₂COMe (II, Ar = o-MeC₆H₄, 2,4-Me₂C₆H₃, α-naphthyl, p-MeC₆H₄, 2,5-Me₂C₆H₃) with BrCH₂CO₂Et, followed by H₂SO₄ cyclization, gave lactones (III, R₁ = R₂ = R₃ = H, R₄ = Me; R₁ = R₃ = H, R₂ = R₄ = Me; R₁ = R₂ = H, R₃R₄ = 7,8-benzo; R₁ = R₄ = Me, R₂ = R₃ = H; R₁ = R₃ = R₄ = H, R₂ = Me). Similarly, reacting II (Ar = Ph, o-MeC₆H₄, p-MeC₆H₄) with Na and Br(CH₂)₂CO₂Et gave ArNHCOCH(COMe)(CH₂)₂CO₂Et, which were cyclized to 3-quinolinepropionic acids (IV, R = CO₂H). Treating IV (R = CO₂H, R₁ = H, Me) with SOCl₂, followed by AlCl₃ in C₆H₆, gave IV (R = Bz, R₁ = H, Me).

IT 36796-84-6P 36796-92-6P 36796-94-8P
 RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)

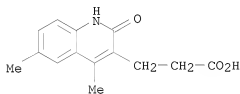
RN 36796-84-6 CAPLUS

CN 3-Quinolineacetic acid, 1,2-dihydro-4,6-dimethyl-2-oxo- (CA INDEX NAME)



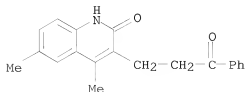
RN 36796-92-6 CAPLUS

CN 3-Quinolinepropanoic acid, 1,2-dihydro-4,6-dimethyl-2-oxo- (CA INDEX NAME)

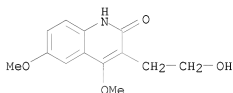


RN 36796-94-8 CAPLUS

CN 2(1H)-Quinolinone, 4,6-dimethyl-3-(3-oxo-3-phenylpropyl)- (CA INDEX NAME)



L28 ANSWER 193 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1971:420723 CAPLUS
 DOCUMENT NUMBER: 75:20723
 ORIGINAL REFERENCE NO.: 75:3323a,3326a
 TITLE: Synthetic application of lithiation reactions. IV. Novel synthesis of linear furoquinoline alkaloids and a synthesis of edulitine
 AUTHOR(S): Narasimhan, N. S.; Paradkar, M. V.; Alurkar, R. H.
 CORPORATE SOURCE: Dep. Chem., Niv. Poona, Poona, India
 SOURCE: Tetrahedron (1971), 27(6), 1351-6
 CODEN: TETRAB; ISSN: 0040-4020
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 75:20723
 GI For diagram(s), see printed CA Issue.
 AB A new synthesis of 2,3-dihydrofuro[2,3-b]quinolines by successive treatment of 2-ethoxyquinoline with BuLi, BrCH₂CH₂CH₂, and HBr, is described and its applicability to obtain the linear furoquinoline alkaloids dictamine (I), pteleine (II), and dihydro-γ-fagarine (III) are illustrated. A synthesis of edulitine (IV) is also achieved by 5% HCl hydrolysis of 2,4,8-trimethoxyquinoline.
 IT 32499-71-1P
 RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)
 RN 32499-71-1 CAPLUS
 CN Carbostryril, 3-(2-hydroxyethyl)-4,6-dimethoxy- (8CI) (CA INDEX NAME)



L28 ANSWER 194 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1971:76288 CAPLUS
 DOCUMENT NUMBER: 74:76288
 ORIGINAL REFERENCE NO.: 74:12375a,12378a
 TITLE: Heterocyclic quinones. XI. 2-Quinolonequinones
 AUTHOR(S): Karpova, N. B.; Tsizin, Yu. S.
 CORPORATE SOURCE: Inst. Med. Parazitol. Trop. Med. im. Martsinovskogo, Moscow, USSR
 SOURCE: Khimiya Geterotsiklicheskich Soedinenii (1970), (10), 1376-80
 CODEN: KGSSAQ; ISSN: 0132-6244
 DOCUMENT TYPE: Journal
 LANGUAGE: Russian
 GI For diagram(s), see printed CA Issue.
 AB The rate-determining step in the oxidation of 6-hydroxy-2-quinolones was the hydroxylation. I (R₁ = Bu, R₂ = OH, R₃ = R₅ = H, R₄ = OMe), 48% HBr, and AcOH was refluxed 6 hr to give 88.5% I (R₁ = Bu, R₂ = R₄ = OH, R₃ = R₅ = H) (II). III (R₁ = R₃ = H, R₂ = Me) (IV) and 2% aqueous N₂H₄·H₂O heated 10 min gave 80% I (R₁ = R₅ = H, R₂ = Me, R₃ = R₄ = OH). Morpholine and IV in MeOH (N atmospheric) kept 30 min gave 93% I (R₁ = H, R₂ = Me, R₃ = R₄ = OH, R₅ = morpholino). Similarly, 69% I (R₁ = Bu, R₂ = Cl, R₃ = R₄ OH, R₅

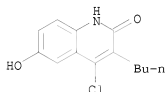
= morpholino) was prepared I (R1 = R3 = R5 = H, R2 = Me, R4 = OH) was treated with Cu(OAc)2 and piperidine in MeOH 300 min under O to give 68% III (R1 = H, R2 = Me, R3 = piperidino). The other I were similarly oxidized (using piperidine or morpholine) to 8 corresponding III in 59-92% yield. Treatment of III with o-(H2N)2C6H4 gave 9 corresponding V.

IT 30722-01-1P 30722-02-2P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

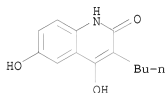
RN 30722-01-1 CAPLUS

CN Carbostyryl, 3-butyl-4-chloro-6-hydroxy- (8CI) (CA INDEX NAME)



RN 30722-02-2 CAPLUS

CN Carbostyryl, 3-butyl-4,6-dihydroxy- (8CI) (CA INDEX NAME)



L28 ANSWER 195 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1970:445465 CAPLUS

DOCUMENT NUMBER: 73:45465

ORIGINAL REFERENCE NO.: 73:7503a,7506a

TITLE: Benzodiazines. XII. Quinoxalones containing methyl

groups on the benzene ring

AUTHOR(S): Koshel, N. G.; Postovskii, I. Ya.

CORPORATE SOURCE: Ural. Politekh. Inst. im. Kirova, Sverdlovsk, USSR

SOURCE: Khimiya Geterotsiklicheskikh Soedinenii (1970), (5), 684-6

CODEN: KGSSAQ; ISSN: 0132-6244

DOCUMENT TYPE: Journal

LANGUAGE: Russian

GI For diagram(s), see printed CA Issue.

AB A mixture of 2.07 g 4,5-diamino-o-xylene, 1.5 g ClCH2CO2H, and 1.2 g solid NaOH was triturated, transferred to a flask, and slightly heated to start the reaction. The exothermic reaction subsided in 10 min, to give a solid mass, which was worked up to give 1.6 g 6,7-dimethyltetrahydro-2-quinoxalones, m. 173-5°. This heated 1 hr with 10 ml 2N NaOH and 1.5 ml 30% H2O2, and acidified with 2N HCl to pH 4 gave 1.3 g 6,7-dimethyl-2(3H)-quinoxalones (I) (R = R1 = Me, R2 = H), m. 291-2° (sublimation). Similarly prepared were I (R = R1 = R2 = H) and I (R = Me, R1 = R2 = H) from the corresponding o-phenylenediamines. To 13.3 g 3,4-diaminotoluene in 20 ml hot H2O was added at 85-90° a solution of 11.4 g acetylenedicarboxylic acid (II) in 50 ml H2O and the mixture refluxed 30 min to give 12.5 g I (R = R2 = Me, R1 = H), and 0.6 g I (R = H, R1 = R2 = Me), m. 238-9° (sublimation). An equivalent amount II in 30 ml H2O

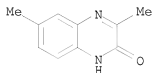
added to 13.8 g 4,5-diamino-o-xylene in 400 ml hot H₂O at 80-5°, and the mixture refluxed 30 min gave 15 g I (R = R₁ = R₂ = Me), m. 278-9°. Similarly prepared was I (R = R₁ = H, R₂ = Me). The effect of introduction of Me groups in I on the ir spectra was discussed.

IT 28082-84-0P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 28082-84-0 CAPLUS

CN 2(1H)-Quinoxalinone, 3,6-dimethyl- (CA INDEX NAME)



L28 ANSWER 196 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1970:414717 CAPLUS

DOCUMENT NUMBER: 73:14717

ORIGINAL REFERENCE NO.: 73:2453a,2456a

TITLE: Depressant 1,2-dihydro-2-oxo-4-phenyl-3-quinolineacetamides

INVENTOR(S): Wei, Peter H. L.; Bell, Stanley C.

PATENT ASSIGNEE(S): American Home Products Corp.

SOURCE: U.S., 2 pp.

CODEN: USXXAM

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3509156	A	19700428	US 1967-689002	19671208
PRIORITY APPLN. INFO.:			US 1967-689002	A 19671208

GI For diagram(s), see printed CA Issue.

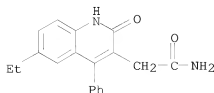
AB I are prepared for use as central nervous system depressants. Thus, 31.2 g KCN in 50 ml H₂O was added to 129 g 2'-benzoyl-3',4'-dichloropropionanilide in 1 l. EtOH and the mixture refluxed 18 hr to give 5.2 g I (R = Cl), m. 315-20°. I (R = Et) was also prepared. An i.p. injection of the compds. into mice at doses of 12.7, 40, 127, and 400 mg/kg induced decreased motor activity and sedative ataxic effects at 400 mg/kg, anticonvulsant effects at 127 mg/kg and no deaths.

IT 29400-67-7P

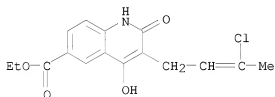
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 29400-67-7 CAPLUS

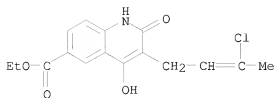
CN 3-Quinolineacetamide, 6-ethyl-1,2-dihydro-2-oxo-4-phenyl- (CA INDEX NAME)



L28 ANSWER 197 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1970:43388 CAPLUS
 DOCUMENT NUMBER: 72:43388
 ORIGINAL REFERENCE NO.: 72:7951a,7954a
 TITLE: New derivatives of 2,4-dihydroxyquinoline. III.
 2,4-Dihydroxy-3-(γ -chlorocrotyl)-6-
 ethoxycarbonylquinoline and some of its reactions
 AUTHOR(S): Gyul'budagyan, L. V.; Grigoryan, E. T.
 CORPORATE SOURCE: Erevan. Gos. Univ., Erevan, USSR
 SOURCE: Armyanskii Khimicheskii Zhurnal (1969), 22(10), 936-9
 CODEN: AYKZAN; ISSN: 0515-9628
 DOCUMENT TYPE: Journal
 LANGUAGE: Russian
 GI For diagram(s), see printed CA Issue.
 AB Derivs. of 6-quinolinecarboxylic acid were prepared. A mixture of 49.7 g
 3-chloro-2-butenyl malonate and 33 g Et p-aminobenzoate was added slowly
 at 150° to 100 ml ligroine, and the temperature gradually raised (1.5
 hr) to 240° to yield 66.8% Et 2,4-dihydroxy-3-(3-chloro-2-butenyl)
 quinoline-6-carboxylate (I), m. 177-8°; picrate m. 101-2°.
 Saponification of I gave 87% corresponding acid (II), m. 216° (50% EtOH);
 picrate m. 168°. Treatment of I and II with POC13 yielded 73% Et
 2,4-dichloro-3-(3-chloro-2-butenyl)quinoline-6-carboxylate, m. 103°
 (picrate m. 73°), and 69% corresponding acid, m. 135°
 (picrate m. 105°). A mixture of 1.6 g I and 10 ml H2SO4 was heated
 at 50° to yield 67.3% 2,4-dihydroxy-3-acetonil-methylquinoline-6-
 carboxylic acid, m. 320°; semicarbazone m. 229°.
 IT 25893-42-9P 25893-43-0P 25893-44-1P
 25893-48-5P 25893-49-6P 27830-52-0P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 25893-42-9 CAPLUS
 CN 6-Quinolinecarboxylic acid, 3-(3-chloro-2-butenyl)-2,4-dihydroxy-, ethyl
 ester (8CI) (CA INDEX NAME)



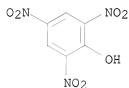
RN 25893-43-0 CAPLUS
 CN 6-Quinolinecarboxylic acid, 3-(3-chloro-2-butenyl)-2,4-dihydroxy-, ethyl
 ester, monopicrate (8CI) (CA INDEX NAME)
 CM 1
 CRN 25893-42-9
 CMF C16 H16 Cl N O4



CM 2

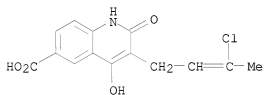
CRN 88-89-1

CMF C6 H3 N3 O7



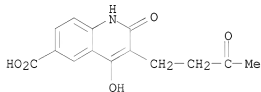
RN 25893-44-1 CAPLUS

CN 6-Quinolinecarboxylic acid, 3-(3-chloro-2-butenyl)-2,4-dihydroxy- (8CI)
(CA INDEX NAME)



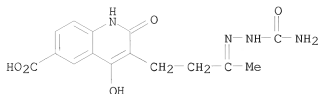
RN 25893-48-5 CAPLUS

CN 6-Quinolinecarboxylic acid, 2,4-dihydroxy-3-(3-oxobutyl)- (8CI) (CA INDEX NAME)



RN 25893-49-6 CAPLUS

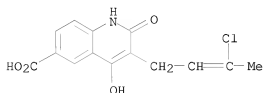
CN 6-Quinolinecarboxylic acid, 2,4-dihydroxy-3-(3-oxobutyl)-, 3-semicarbazone (8CI) (CA INDEX NAME)



RN 27830-52-0 CAPLUS
 CN 6-Quinolinedicarboxylic acid, 3-(3-chloro-2-butenyl)-2,4-dihydroxy-,
 monopicrate (8CI) (CA INDEX NAME)

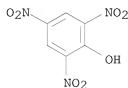
CM 1

CRN 25893-44-1
 CMF C14 H12 Cl N O4



CM 2

CRN 88-89-1
 CMF C6 H3 N3 O7



L28 ANSWER 198 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1969:438908 CAPLUS

DOCUMENT NUMBER: 71:38908

ORIGINAL REFERENCE NO.: 71:7175a,7178a

TITLE: Synthesis and antimicrobial action of
 α -[2-(5-nitro-2-furyl)vinyl]quinoxaline and its
 derivatives

AUTHOR(S): Saldabols, N.; Alekseeva, L. N.; Brizga, B.; Medne,
 K.; Kruzmetra, L.; Zile, A.

CORPORATE SOURCE: Inst. Org. Sin., Riga, USSR

SOURCE: Khimiko-Farmatsevticheskii Zhurnal (1969), 3(3), 9-13
 CODEN: KHFZAN; ISSN: 0023-1134

DOCUMENT TYPE: Journal

LANGUAGE: Russian

GI For diagram(s), see printed CA Issue.

AB 2-Furfurylideneacetone (34 g.) was added to a solution of 32.25 g. selenious
 acid in 150 ml. dioxane and 2.5 ml. H2O, boiled for 5 hrs.

o-Phenylenediamine (27 g.) was added to the filtrate containing 2-(2-furylvinyl)glyoxal, 250 ml. H₂O was added, and on workup yielded 2-(2-furylvinyl)quinoxaline (I), m. 90°. I (16% yield) was also prepared from 14.4 g. 2-methylquinoxaline, 9.6 g. furfural, and 20 ml. Ac₂O (II) heated in H₂O bath 3 hrs. and diluted with 100 ml. H₂O. 2-Methylquinoxaline (2.86 g.), 5-nitro-2-furfural, 10 ml. II, and 10 ml. HOAc (III) boiled 3 hrs. and the mixture worked up yielded 68% 2-[2-(5-nitro-2-furyl)vinyl]quinoxaline (IV), m. 225-6°. 2,3-Dimethylquinoxaline (V) (1.58 g.), 1.92 g. furfural, and 10 ml. III boiled for 2 hrs. yielded 60% 2,3-bis[2-(2-furyl)-vinyl]quinoxaline, m. 165-8°. 2,3-Bis-[2-(5-nitro-2-furyl)vinyl]quinoxaline, m. 315-20°, was prepared in 49% yield by 2 hrs. boiling of 3.16 g. V, 5.34 g. 5-nitrofurfural, and 20 ml. III. 3-Methyl-2-[2-(5-nitro-2-furyl)vinyl]quinoxaline (VI), m. 228°, was prepared in 59% yield analogously to IV. 2-Furfurylidene-pyruvic acid Na salt (18.8 g.), 300 ml. alc., 20 ml. HOAc, and 10.8 g. o-phenylenediamine boiled for 2 hrs. yielded 54% 3-[2-(2-furyl)-vinyl]-2-quinoxalinone (VII), m. 245-50°. 3-[2-(5-Nitro-2-furyl)vinyl]-2-quinoxalinone (VIII), m. 300°, was prepared in 45% yield from 3.2 g. 3-methyl-2-quinoxalinone, 2.82 g. 5-nitrofurfural, and 20 ml. III boiled 4 hrs. Alternately, 2.38 g. finely ground VII added to a nitrating mixture of 50 ml. concentrated H₂SO₄

and

10 millimoles 70% HNO₃ during strong mixing for 30 min. poured on 200 g. ice with H₂O, yielded 100% VIII, m. 305°. 6-Nitro-3-[2-(5-nitro-2-furyl)vinyl]-2-quinoxalinone was prepared from 1.41 g. 5-nitrofurfural, 2.05 g. 3-methyl-6-nitro-2-quinoxalinone, 10 ml. II, and 5 ml. III heated 3 hrs. on a boiling H₂O bath with 40% yield, m. 300°; or from 10 millimoles VII nitrated with 25 milli-moles 70% HNO₃ as in the synthesis of VIII in 89% yield, m. 296-300°. The tuberculostatic activity was relatively high and the fungistatic activity was relatively low.

IT

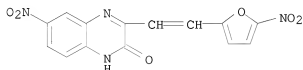
27746-34-5P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN

27746-34-5 CAPLUS

CN

2(1H)-Quinoxalinone, 6-nitro-3-[2-(5-nitro-2-furyl)vinyl]- (8CI) (CA INDEX NAME)



L28 ANSWER 199 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1969:88007 CAPLUS

DOCUMENT NUMBER: 70:88007

ORIGINAL REFERENCE NO.: 70:16457a,16460a

TITLE: Mass spectra of the furoquinol-4-one alkaloid acrophylline and quinol-2-ones related to hexahydroacrophylline

AUTHOR(S): Lahey, F. N.; Lauder, Ian; McCamish, M.

CORPORATE SOURCE: Univ. Queensland, St. Lucia, Australia

SOURCE: Australian Journal of Chemistry (1969), 22(2), 431-45

CODEN: AJCHAS; ISSN: 0004-9425

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The mass spectra of several isofuroquinoline alkaloids

(N-methylfuroquinol-4-ones) including the new N-prenylfuroquinol-4-one, acrophylline, were determined. The fragmentation of hexa-hydroacrophylline and

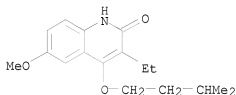
related 3-ethyl-4-hydroxyquinol-2-ones were determined by D and 18O labeling and high-resolution measurements.

IT 22048-14-2 22048-16-4

RL: PRP (Properties)
(mass spectrum of)

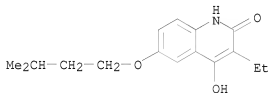
RN 22048-14-2 CAPLUS

CN Carbostryril, 3-ethyl-4-(isopentyloxy)-6-methoxy- (8CI) (CA INDEX NAME)



RN 22048-16-4 CAPLUS

CN Carbostryril, 3-ethyl-4-hydroxy-6-(isopentyloxy)- (8CI) (CA INDEX NAME)



L28 ANSWER 200 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1968:496662 CAPLUS

DOCUMENT NUMBER: 69:96662

ORIGINAL REFERENCE NO.: 69:18103a,18106a

TITLE: Reductive formylation of some quinoxaline derivatives

AUTHOR(S): Baxter, I.; Cameron, D. W.

CORPORATE SOURCE: Univ. Chem. Lab., Cambridge, UK

SOURCE: Journal of the Chemical Society [Section] C: Organic
(1968), (19), 2471-4

CODEN: JSOQAX; ISSN: 0022-4952

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 69:96662

GI For diagram(s), see printed CA Issue.

AB Reduction of quinoxaline and its 2-methyl derivative by HCO2H in HCONH2 yields
a

mixture of the corresponding N,N'-diformyl-1,2,3,4-tetrahydro compound and 2,2'-biquinoxalinyll. 2-Hydroxyquinoxalines are converted into 4-formyl-1,2,3,4-tetrahydro-2-oxoquinoxalines (I). Condensation products formed from Me2CO and some nitroquinoxalines are described.

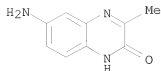
IT 19801-05-9P 19801-07-1P 19801-10-6P

19801-11-7P 19801-12-8P

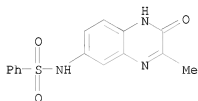
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 19801-05-9 CAPLUS

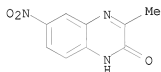
CN 2(1H)-Quinoxalinone, 6-amino-3-methyl- (CA INDEX NAME)



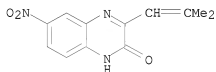
RN 19801-07-1 CAPLUS
 CN Benzenesulfonamide, N-(2-hydroxy-3-methyl-6-quinoxalinyl)- (8CI) (CA INDEX NAME)



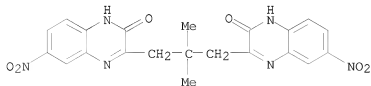
RN 19801-10-6 CAPLUS
 CN 2(1H)-Quinoxalinone, 3-methyl-6-nitro- (CA INDEX NAME)



RN 19801-11-7 CAPLUS
 CN 2-Quinoxalinol, 3-(2-methylpropenyl)-6-nitro- (8CI) (CA INDEX NAME)



RN 19801-12-8 CAPLUS
 CN 2-Quinoxalinol, 3,3'-(2,2-dimethyltrimethylene)bis[6-nitro- (8CI) (CA INDEX NAME)



L28 ANSWER 201 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1968:87119 CAPLUS
 DOCUMENT NUMBER: 68:87119
 ORIGINAL REFERENCE NO.: 68:16787a,16790a

TITLE: New derivatives of 2,4-dihydroxyquinoline. II.
Synthesis of 6-substituted 3-(p-alkoxybenzyl)-3-(γ -chlorocrotyl)-2,4-dihydroxyquinolines and their 2,4-dichloro derivatives

AUTHOR(S): Gyul'budagyan, L. V.; Bagratuni, Zh. L.; Grigoryan, V. A.

CORPORATE SOURCE: Erevansk. Gos. Univ., Erevan, USSR

SOURCE: Armyanskii Khimicheskii Zhurnal (1967), 20(7), 522-5
CODEN: AYKZAN; ISSN: 0515-9628

DOCUMENT TYPE: Journal

LANGUAGE: Russian

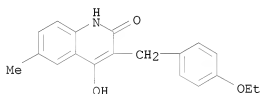
GI For diagram(s), see printed CA Issue.

AB To 50 ml. of mineral oil heated to 150° was added 0.11 mole (EtO2C)2CHCH2C6H4OMe-p and 0.1 mole of PhNH2 and the mixture heated in 1 hr. so that the temperature reached 210-20°, to give I (R3 = R4 = OH, R = p-MeOC6H4CH2 (A), R1 = H), m. 215°. Similarly prepared were I (R3 = R4 = OH) (R1, R2, % yield and m.p. given): A, Cl, 66, 210°; A, Br, 74.4, 246°; p = EtOC6H4CH2 (B), H, 65.1, 220°; B, Me, 51.2, 230°; MeCCl:CHCH2 (C), Cl, 68.5, 217°; C, Br, 57.2, 236°. A mixture of 0.1 mole of the appropriate I and 15 ml. POC13 was heated on the water bath till the evolution of HCl ceased to give I (R3 = R4 = Cl) (R1, R2, % yield, and m.p. given): A, H, 75.6, 87°; A, Cl, 65.7, 84°; A, Br, 70, 126°; B, H, 71.8, 106°; B, Me, 68.9, 112°; C, Cl, 72.9, 148°; C, Br, 68.1, 152°.

IT 17888-10-7P
RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)

RN 17888-10-7 CAPLUS

CN 2,4-Quinolinediol, 3-(p-ethoxybenzyl)-6-methyl- (8CI) (CA INDEX NAME)



L28 ANSWER 202 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1966:35813 CAPLUS

DOCUMENT NUMBER: 64:35813

ORIGINAL REFERENCE NO.: 64:6626d-h

TITLE: 3-Dialkylaminoethyl-4-methyl-7-alkoxy (or alkenyloxy)-2-oxo-1,2-dihydroquinolines
Cassella Farbwerke Mainkur A.-G.
26 pp.

PATENT ASSIGNEE(S): Patent

SOURCE: Unavailable

DOCUMENT TYPE: Patent

LANGUAGE: Unavailable

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
BE 645998		19641001	BE	
FR M3540			FR	
GB 1042638			GB	
PRIORITY APPLN. INFO.:			DE	19630402

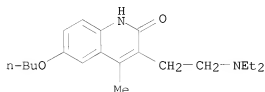
GI For diagram(s), see printed CA Issue.

AB Compds. of the general formulas I and II are prepared and can be used as coronary vasodilators. Thus, a mixture of 27.4 g. 3-(β -diethylaminoethyl)-4-methyl-7-hydroxy-2-oxo-1,2-dihydroquinoline, 16 g. K₂CO₃, and 260 ml. HCONMe₂ is heated 2 hrs. at 70°, 14 g. ClCH₂CO₂Et added dropwise, and the mixture agitated 9 hrs. at 70° to give 3-(β -diethylaminoethyl)-4-methyl-7-ethoxycarbonylmethoxy-2-oxo-1,2-dihydroquinoline-HCl, m. 222°. Similarly prepared are the following I (R₂ = Me) (R or NR₂, R₁, R₃, X, m.p., and m.p. HCl salt given): Et, H, allyl, H, --, 233° (EtOAc-MeOH); Et, H, Et, H, 197°, --; Et, H, PhCH₂, H, 218°, --; Et, H, Et₂NCH₂CH₂, H, 179°, --; Et, H, Bu, H, 186°, --; piperidino, H, EtO₂CCH₂, H, --, 266°; piperidino, H, Bu, H, 243°, --; piperidino, Et, EtO₂CCH₂, H, --, 170°; piperidino, Bu, EtO₂CCH₂, H, --, 167°; Et, H, EtO₂CCHMe, H, --, 184°; Et, H, EtO₂CCH₂, Cl, --, 220-2°; Et, H, allyl, Cl, --, 189° (MeOH-H₂O); Et, H, Bu, Cl, --, 185°; Et, H, EtO₂CCH₂, Br, 143-5° (MeOH), 202-4° (decomposition); Et, H, allyl, Br, --, 200°; Et, H, Bu, Br, --, 198°; Et, Me, EtO₂CCH₂, Br, --, 196°; piperidino, Bu, EtO₂CCH₂, Br, --, 221°; Et, H, EtO₂CCHMe, Br, --, 110-11°; Et, H, EtO₂CCH₂, NO₂, 240-2° (decomposition) (MeOH), --; Et, Me, EtO₂CCH₂, Cl, --, 135°; Et, H, Et₂NCH₂CH₂, Br, --, --, 2HCl salt m. 240° (decomposition); piperidino, H, EtO₂CCH₂, Br, --, 204°; morpholino, H, EtO₂CCH₂, Br, --, 231°; piperidino, Et, EtO₂CCH₂, Br, --, 206°; Et, Et, EtO₂CCH₂, Br, --, 172°; Et, H, Me, H, --, 264°. Similarly prepared are (m.p. HCl salt given): 3-(β -diethylaminopropyl)-4-methyl-7-ethoxycarbonylmethoxy-2-oxo-1,2-dihydroquinoline, 221-2°; I (X = H, R = Et, R₁ = H, R₂ = Ph, R₃ = EtO₂CCH₂), 229° (alc.-MeEtCO); II (R = Et, R₁ = H, R₂ = Me, R₃ = EtO₂CCH₂, X = X₁ = Br) [m. 177-8° (EtOAc)], 202-3°. A mixture of 16 g. m-MeOC₆H₄NH₂, 25 g. Ac(Et₂NCH₂CH₂)CHCO₂Et, and 190 g. polyphosphoric acid is agitated 15 min. at 130-50° to give 10 g. I (X = R₁ = H, R = Et, R₂ = Me, R₃ = Me), m. 264°. A solution of 27.4 g. I (X = R₁ = H, R = Et, R₂ = Me, R₃ = H) in 274 ml. HOAc is treated with Cl₂ at 10-20° to give I (R₁ = R₃ = H, R = Et, R₂ = Me, X = Cl)-HCl, m. 300° (decomposition). Also prepared are (m.p. given): I (R₁ = R₃ = H, R = Et, R₂ = Me, X = Br)-HBr, 263-5° (decomposition); II (R₁ = R₃ = H, R = Et, R₂ = Me, X = X₁ = Br)-HBr, 255-7° (decomposition); I (R₁ = R₃ = H, R = Et, R₂ = Me, X = NO₂) nitrate, 266-8° (decomposition); I (R₃ = H, R = Et, R₁ = R₂ = Me, X = Cl)-HCl, 266-8° (decomposition) (HCONMe₂).

IT 100154-46-9
(Derived from data in the 7th Collective Formula Index (1962-1966))

RN 100154-46-9 CAPLUS

CN Carbostyryl, bromo-6-butoxy-3-[2-(diethylamino)ethyl]-4-methyl-, hydrochloride (7CI) (CA INDEX NAME)



DI- Br

● HCl

L28 ANSWER 203 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1964:447764 CAPLUS

DOCUMENT NUMBER: 61:47764

ORIGINAL REFERENCE NO.: 61:8271d-f

TITLE: New derivatives of 2,4-quinolinediol. I. Synthesis of some 3-(γ -chlorocrotyl)-2,4-quinolinediols
Gyul'budagyan, L. V.; Grigoryan, V. A.; Pogosyan, A. A.

SOURCE: Izvestiya Akademii Nauk Armyanskoi SSR, Khimicheskoe Nauki (1964), 17(2), 223-6
CODEN: IARKAZ; ISSN: 0367-6846

DOCUMENT TYPE: Journal

LANGUAGE: Russian

GI For diagram(s), see printed CA Issue.

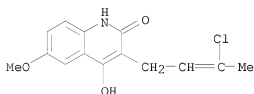
AB Ethyl γ -chlorocrotylmalonate (I) (0.11 mole), 0.1 mole aromatic amine, and 50 ml. vaseline oil heated with stirring at 200-20° 1 hr., cooled, and the crystals washed with petr. ether gave 2,4-dihydroxy-3-(γ -chlorocrotyl)quinolines and II (R, % yield, and m.p. given): H, 84.6, 197°; 6-Me, 71.4, 194°; 8-Me, 63.8, 179°; OH 6-OMe, 67.4, 203°; 8-OMe, 80.1, 170°. The quinolinediols were crystalline products soluble in alc. and pyridine. I (0.11 mole), 0.05 mole o-tolidine, and 50 ml. vaseline oil, similarly treated as above, gave a crystalline product, which after addition of 200 ml. EtOH and heating gave 9.2 g. 2,4-dihydroxy-3-(γ -chlorocrotyl)-6-(3-methyl-4-aminophenyl)-8-methylquinoline, m. 295°. From the alc. solution was separated 8.9 g. 6,6'-bis[2,4-dihydroxy-3-(γ -chlorocrotyl)-8-methylquinolyl], m. 206°.

IT 92253-19-5P, 2,4-Quinolinediol, 3-(3-chloro-2-butenyl)-6-methoxy-93044-53-2P, 2,4-Quinolinediol, 3-(3-chloro-2-butenyl)-6-methyl-RL: PREP (Preparation)

(preparation of)

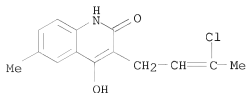
RN 92253-19-5 CAPLUS

CN 2,4-Quinolinediol, 3-(3-chloro-2-butenyl)-6-methoxy- (7CI) (CA INDEX NAME)



RN 93044-53-2 CAPLUS

CN 2,4-Quinolinediol, 3-(3-chloro-2-butenyl)-6-methyl- (7CI) (CA INDEX NAME)



L28 ANSWER 204 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1963:462385 CAPLUS
 DOCUMENT NUMBER: 59:62385
 ORIGINAL REFERENCE NO.: 59:11514c-h,11515a
 TITLE: Dihydroquinoxal-2-ones
 INVENTOR(S): Zellner, Hugo; Pailer, Matthias; Pruckmayr, Gerfried
 PATENT ASSIGNEE(S): Donau-Pharmazie G.m.b.H.
 SOURCE: 12 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: Unavailable
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
AT 228204		19630710	AT	19590703
PRIORITY APPLN. INFO.:			AT	19590703

GI For diagram(s), see printed CA Issue.

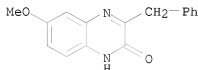
AB New dihydroquinoxal-2-ones (I), in which R1, R2, R3, R7, and R8 are H, halogen, alkyl, OH, alkoxy, acyloxy, NH2, monoalkylamino, dialkylamino, acylamino, NO2, or alkylthio groups, R4 is dialkylaminoalkyl, aminoalkyl, N-alkylpiperidyl or N-alkylmorpholyl, and R5 and R6 are H, alkyl with up to 5 C atoms, OH, acyloxy, alkoxy, NH2, acylamino, monoalkylamino, or dialkyl amino groups, and the salts thereof are prepared by treating the resp. o-phenylene diamines with suitably substituted phenylpyruvic acids or derivs. thereof to obtain the dihydroquinoxalones, which are then aminoalkylated at the 1-N atom with an amino alc. and subsequently aminated. The compds. obtained may be converted into salts. Thus, there have been prepared: 1-(diethylaminoethyl)-3-benzylidihydroquinoxal-2-one, m. 31°; 1-(diethylaminoethyl)-3-(4-methoxybenzyl)dihydroquinoxal-2-one; 1-(diethylaminoethyl)-3-(3,4-dimethoxybenzyl)dihydroquinoxal-2-one, m. 192°; 1-(diethylaminoethyl)-3-(3,4-methylenedioxybenzyl)dihydroquinoxal-2-one, light yellow oil; 1-(diethylaminoethyl)-3-(3,4-dimethoxybenzyl)-6-chlorodihydroquinoxal-2-one, b0.5 240-6°; 6-chloro-3-(4-methoxybenzyl)-1-diethylaminoethylidihydroquinoxal-2-one, b0.01 210°; 3-(4-nitrobenzyl)-1-diethylaminoethylidihydroquinoxal-2-one, b0.03-0.05 170-5°; 3-(4-dimethylaminobenzyl)-1-diethylaminoethylidihydroquinoxal-2-one, b0.01 200-10°; 6(7)-methoxy-3-(3,4-dimethoxybenzyl)-1-diethylaminoethylidihydroquinoxal-2-one, b0.01 220°; 6(7)-methyl-3-(4-methoxybenzyl)-1-diethylaminoethylidihydroquinoxal-2-one, b0.01 200°; 3-(4-chlorobenzyl)-1-diethylaminoethylidihydroquinoxal-2-one, b0.01 185-90°; 3-(4-methoxybenzyl)dihydroquinoxal-2-one, m. 198°; 3-(3,4-methylenedioxybenzyl)dihydroquinoxal-2-one, m. 220°; 6(7)-methoxy-3-benzylidihydroquinoxal-2-one, 2 isomers, m. 185 and 199°, resp.; 6(7)-methoxy-3-(4-methoxybenzyl)dihydroquinoxal-2-one, m. 190°; 6(7)-chloro-3-(4-methoxybenzyl)dihydroquinoxal-2-one, m. 227-9°; 6(7)-nitro-3-(4-methoxybenzyl)dihydroquinoxal-2-one, m. 192-7°; 6(7)-methoxy-3-(3,4-dimethoxybenzyl)dihydroquinoxal-2-one, m. 171°, 6(7)-methoxy-3-(3,4-methylenedioxybenzyl)dihydroquinoxal-2-one, m. 215°; 6,7-dimethoxy-3-benzylidihydroquinoxal-2-one, m. 275°; 3-(4-ethoxybenzyl)dihydroquinoxal-2-one, m. 196°; 3-(p-chlorobenzyl)dihydroquinoxal-2-one, m. 180° (decomposition); 3-(p-hydroxybenzyl)dihydroquinoxal-2-one, m. 246°; 3-(4-methoxyphenyl)-α-ethylidihydroquinoxal-2-one, m. 205°; 6(7)-methoxy-3-(3,4-dimethoxybenzyl)-1-diethylaminoethylidihydroquinoxal-2-one, b0.01 220°; 3-(4-ethoxybenzyl)-1-diethylaminoethylidihydroquinoxal-2-one, m. 62°; 6(7)-methoxy-3-benzyl-1-diethylaminoethylidihydroquinoxal-2-one, b0.01 204-8°; 3-(4-methoxybenzyl)-1-morpholinoethylidihydroquinoxal-2-one, m. 151°; 6(7)-chloro-3-(4-methoxybenzyl)-1-morpholinoethylidihydroquinoxal-2-one, b0.005 200°;

6(7)-methoxy-3-(3,4-methylenedioxybenzyl)-1-morpholinoethylidihydroquinoxal-
2-one, m. 201°, b0.01 200-10°; 3-benzyl-1-morpholinoethylidihydroquinoxal-
2-one, b0.005 203°; 6(7)-chloro-3-(4-methoxybenzyl)-1-
diethylaminoethylidihydroquinoxal-2-one, b0.01 210°, m.
78-9°; 6,7-dimethoxy-3-benzyl-1-diethylaminoethylidihydroquinoxal-2-
one, b0.005 230°; 1-piperidinomethyl-3-benzylidihydroquinoxal-2-one,
m. 211-12°. The compds. are useful as analgesics; they have
papaverine- and morphine-like activity.

IT 94066-67-8P, 2(1H)-Quinoxalinone, 3-benzyl-6-methoxy-
RL: PREP (Preparation)
(preparation of)

RN 94066-67-8 CAPLUS

CN 2(1H)-Quinoxalinone, 3-benzyl-6-methoxy- (7CI) (CA INDEX NAME)



L28 ANSWER 205 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1963:421769 CAPLUS

DOCUMENT NUMBER: 59:21769

ORIGINAL REFERENCE NO.: 59:3920b-d

TITLE: The reaction of diethyl acetylenedicarboxylate with
4-methyl-1,2-diaminobenzene
Iwanami, Yasuo
CORPORATE SOURCE: Sasaki Inst., Tokyo
SOURCE: Nippon Kagaku Zasshi (1962), 83(161), 5
CODEN: NPKZAZ; ISSN: 0369-5387
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable

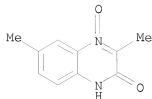
GI For diagram(s), see printed CA Issue.

AB EtO2CC.tplbond.CO2Et (8.5 g.) in 10 cc. EtOH treated with 6.1 g.
2,4-(H2N)2C6H3Me in 800 cc. EtOH gave 9.7 g. mixture, m. 173-81°,
which was fractionally crystallized from EtOH to give 1.1 g. 7-methyl-2-oxo-3-
ethoxycarbonylmethylene-1,2,3,4-tetrahydroquinoxaline (I), m.
196.5-7.5°, sparingly soluble, and 1.35 g. 6-methyl-2-oxo-3-
ethoxycarbonylmethylene-1,2,3,4-tetrahydroquinoxaline (II), m.
1778°. I (1 g.) and 60 cc. 6N HCl was heated 3 hrs. to give CO2 and
0.6 g. 7-methyl-2-oxo-3-methylene-1,2,3,4-tetrahydroquinoxaline (III), m.
236-7°. Similarly, II gave 6-methyl-2-oxo-3-methylene-1,2,3,4-
tetrahydroquinoxaline (IV), m. 221-1°. Hydrogenation of III with
Raney Ni afforded 3,7-dimethyl-2-oxo-1,2,3,4-tetrahydroquinoxaline (V), m.
157°. 4,2-Me(O2)C6H3NHCHMeCO2H was treated similarly to give V.
5,2-Me(AcNH)C6H3NO2 was hydrogenated and the product treated with
MeCHBrCO2Et to give 3,6-dimethyl-2-oxo-1,2,3,4-tetrahydroquinoxaline (VI),
m. 253-5°, the results being different from those reported (Marks
and Schultz, CA 45, 9546b). Hydrogenation of IV gave VI. Infrared
spectra of I, II, III, and IV, mixed m.p. curve of I and II and that of
III and IV are given.

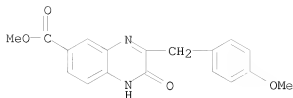
IT 90915-48-3P, 2(1H)-Quinoxalinone, 3,6-dimethyl-, 4-oxide
RL: PREP (Preparation)
(preparation of)

RN 90915-48-3 CAPLUS

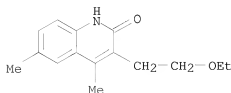
CN 2(1H)-Quinoxalinone, 3,6-dimethyl-, 4-oxide (CA INDEX NAME)



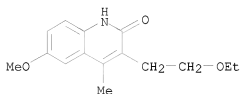
L28 ANSWER 206 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1963:403525 CAPLUS
 DOCUMENT NUMBER: 59:3525
 ORIGINAL REFERENCE NO.: 59:626h,627a-d
 TITLE: Synthesis of quinoxalone derivatives
 AUTHOR(S): Pailer, M.; Pruckmayr, G.; Zellner, H.; Zellner, Gertraud
 CORPORATE SOURCE: Univ. Vienna
 SOURCE: Monatshefte fuer Chemie (1962), 93, 1005-18
 CODEN: MOCMB7; ISSN: 0026-9247
 DOCUMENT TYPE: Journal
 LANGUAGE: Unavailable
 OTHER SOURCE(S): CASREACT 59:3525
 GI For diagram(s), see printed CA Issue.
 AB The synthesis of a series of substituted 3-benzylquinoxal-2-ones is described. These could be expected to possess a similar pharmacol. activity to the analogous benzimidazole derivs. of similar structure. I were prepared either by condensing the corresponding phenylpyruvic acid with N-diethylaminoethyl- or N-morpholinoethyl-o-phenylenediamine, or by first preparing the quinoxalone then alkylating with diethylaminoethyl chloride [or morpholinoethyl (MA) chloride] and sodamide in absolute dioxane or with K2CO3 in absolute xylene. Similarly prepared were II (R, R1, m.p. given): H, H, 312°; OMe, H, 267.5-8.5°; H, Et2NCH2CH2, 99.5-101°. R, R1, R2, R3, R4, m.p.; H, H, H, H, H, 196°; OMe, H, H, H, H, 198°; OEt, H, H, H, H, 196°; OCH2O, , H, H, H, 220°; H, H, OMe(H), H(OMe), H, 185°; H, H, H(OMe), OMe(H), H, 200°; H, H, OMe, OMe, H, 275°; OH, H, H, H, H, 243-6°; , , , , (decomposition); OMe, OMe, Cl(H), H(Cl), H, 201-2°; OMe, H, Cl(H), H(Cl), H, 220-2°; OMe, H, H(Cl), Cl(H), H, 227-9°; NO2, H, H, H, H, 268-9°; Cl, H, H, H, H, 231°; OMe, H, NO2(H), H, (NO2), H, 192-7°; OMe, H, Me(H), H(Me), H, 202-3°; OMe, H, CO2Me(H), H(CO2Me), H, 167-8°; OMe, H, benzo, , 264°; H, H, H, H, Et2NCH2CH2, -, OMe, H, H, H, Et2NCH2CH2, 69° (HCl salt m. 188°); OMe, OMe, H, H, Et2NCH2CH2, - (HCl salt m. 192°); OCH2O, , H, H, Et2NCH2CH2, - (HCl salt m. 220°); OEt, H, H, H, Et2NCH2CH2 61°; OMe, OMe, Cl(H), H(Cl), Et2NCH2CH2, -, OMe, H, H, (Cl), Et2NCH2CH2, 78-9°; Cl, H, H, H, Et2NCH2CH2, 73-5°; OMe, H, Me(H), H(Me), Et2NCH2CH2, 69-70°; H, H, H, H, MA, -, OMe, H, H, H, MA, 151°; Also prepared was III; HCl salt m. 207-10°.
 IT 94209-89-9P, 6-Quinoxalinecarboxylic acid, 1,2-dihydro-3-(p-methoxybenzyl)-2-oxo-(?), methyl ester
 RL: PREP (Preparation)
 (preparation of)
 RN 94209-89-9 CAPLUS
 CN 6-Quinoxalinecarboxylic acid, 1,2-dihydro-3-(p-methoxybenzyl)-2-oxo-, methyl ester (7CI) (CA INDEX NAME)



L28 ANSWER 207 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1963:20875 CAPLUS
 DOCUMENT NUMBER: 58:20875
 ORIGINAL REFERENCE NO.: 58:3463g-h,3464g-h
 TITLE: Furoquinolines. XXII. Synthesis of 4-methyl-2,3-dihydro-[2,3-b]quinoline and its analogs
 AUTHOR(S): Ohta, Tatsuo; Mori, Yo; Mihashi, Susumu
 CORPORATE SOURCE: Tokyo Coll. Pharm.
 SOURCE: Yakugaku Zasshi (1962), 82, 508-11
 CODEN: YKKZAJ; ISSN: 0031-6903
 DOCUMENT TYPE: Journal
 LANGUAGE: Unavailable
 AB cf. CA 56, 2433b. AcCH(CH₂CH₂OEt)CO₂Et (I) (10 g.) on all oil bath at 150° treated dropwise with 2 ml. PhNH₂ and the solution concentrated in vacuo gave 5.2 g. x-RC₆H₄NHCOCHAcCH₂CH₂OEt (II) (x-R = H) (III), oil. Or, 10 g. I in 65 ml. C₆H₆ and 1.4 g. Na refluxed 3.5 hrs., the C₆H₆ removed, the residue in 80 ml. EtOH and 15.3 g. EtOCH₂CH₂Br refluxed 1 hr., the solution concentrated, and the residue extracted with Et₂O gave 8 g. II, oil.
 I (5.2 g.) added portionwise to 5.2 g. concentrated H₂SO₄, kept overnight at room temperature, heated 5 min. at 60° and the product poured into ice H₂O gave 2.4 g. 3-(2-ethoxyethyl)-4-methylcarbostyryl (III), m. 142-3° (MeOH). III (1.7 g.) in 54 g. polyphosphoric acid kept 2 hrs. at 100-5° and the product poured into ice H₂O and made alkaline with NH₄OH gave 1.23 g. 4-methyl-2,3-dihydrofuro[2,3-b]quinoline (IV), m. 123-3.5°; picrate m. 198-9° Other analogs of II (x-R = 4-Me, 4-MeO, 3-Cl, or 2-MeO) were all oils. Other x-R substituted analogs of III were prepared (x-R, % yield, and m.p. given): 6-Me, 27.8, 170-5° 7-MeO, 42.8, 151-1.5° 7-Cl, 40.2, 158-9°; 6-Cl, 10.7, 182-3° Other x-R substituted analogs of IV were prepd, (x-R, % yield, and m.p., and m.p. of picrate given): 6-Me, 86.2, 182°, 197-9° (decomposition); 6-MeO, 70.2, 161-2°, 196-7° (decomposition); 7-Cl, 51.8, 131-2° above 300°; 6-Cl, 40.3, 230-1° above 300°.
 IT 92652-02-3P, Carbostyryl, 3-(2-ethoxyethyl)-4,6-dimethyl-92652-41-0P, Carbostyryl, 3-(2-ethoxyethyl)-6-methoxy-4-methyl-RL: PREP (Preparation) (preparation of)
 RN 92652-02-3 CAPLUS
 CN Carbostyryl, 3-(2-ethoxyethyl)-4,6-dimethyl- (6CI, 7CI) (CA INDEX NAME)



RN 92652-41-0 CAPLUS
 CN Carbostyryl, 3-(2-ethoxyethyl)-6-methoxy-4-methyl- (6CI, 7CI) (CA INDEX NAME)



L28 ANSWER 208 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1962:53317 CAPLUS

DOCUMENT NUMBER: 56:53317

ORIGINAL REFERENCE NO.: 56:10097e-i,10098a-b

TITLE: Intensities of the carbonyl bands in the infrared

spectra of 2- and 4-quinolones

AUTHOR(S): mcCorkindale, N. J.

CORPORATE SOURCE: Univ. Glasgow, UK

SOURCE: Tetrahedron (1961), 14, 223-9

CODEN: TETRAB; ISSN: 0040-4020

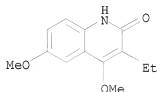
DOCUMENT TYPE: Journal

LANGUAGE: Unavailable

GI For diagram(s), see printed CA Issue.

AB Measurement of the intensities of the CO bands in 65 2-(I, II) or 4-quinolones (III) showed that the high intensities of I and II distinguished them from III. I, II, and III were readily soluble in 1:3 or 1:4 Me2SO-CHCl3 in which the KBr of the cells was virtually insol. Integrated intensities were calculated by the method of Cabana and Sandorfy (CA 54, 17034h). Measurements were made on 6-12 mg. samples in 5 ml. solvent using 0.5-mm. cells. Properties of new compds. are listed [series, R, R' and uncor. m.p. (solvent) given]. I: OH, 8-MeO, 226-7° (alc.); OH, 5,8-(MeO)2, 217-18° (alc.); OH, 8-Ph, 233-5° (alc.); OH, 5,6-benzo, 270-5° (AcOH); OH, 8-MeO2C, 245° (alc.); OAc, 8-MeO, 180-2° (alc.); OAc, 7-MeO, 223° (dilute alc.); OAc, 5,8-(MeO)2, 184-8° (dilute alc.); OAc, 8-Ph, 215-17° (alc.); OAc, 8-MeO2C, 171-2° (alc.); OAc, 5,6-benzo, 266-71° (alc.); Cl, H, 222-5° (dilute alc.); Cl, 5,8-(MeO)2, 201-4° (alc.); Cl, 8-MeO2C, 142.0-2.5° (dilute alc.); Cl, 8-MeO, 206-8° (alc.); OMe, 8-MeO, 116-18° (ligroine, b. 60-80°); OMe, 7-MeO, 152.5-4.0° (C6H6-ligroine); OMe, 6-MeO, 167-9° (C6H6-ligroine); OMe, 5,8-(MeO)2, 149-50° (C6H6-ligroine); OMe, 6,8-(MeO)2, 130-1° (ligroine) (identical with the hydrogenolysis product of maculosidine); OMe, 8-Ph, 135-6° (ligroine). II: OH, 8-MeO2C, 242-3° (dilute alc.); OMe, H, 82.0-3.5° (petr. ether); OMe, 7-MeO, 0.1 mm., 72-4° (petr. ether) (b0.1 160-80°); OMe, 8-MeO2C, 119-20° (petr. ether). III: 5,8-dimethoxy-2-methyl-4-quinolone, 216-17° (HCONMe2); 3-carbethoxy-8-phenyl-4-quinolone, 245-8° (C5H5N-alc.); 3-carboxy-5,8-dimethoxy-4-quinolone, 270-1° (Me2CO); 8-phenyl-4-quinolone, 203.5-4.5° (dilute alc.); α-ethylmalondi(o-aniside), 152-4° (alc.). The CO intensities of the 4-quinolones (8.9-25.8 units) were comparable to those found for a group of anilides and to those recorded for some acetamides, benzamides, and acetanilides (11.6-22.5 units). The CO intensities of the 2-quinolones were found at a higher range (33.7-76.7 units). Some applications of the findings in alkaloid chemistry were discussed, including proof that the ring system of maculosidine is linear.

IT 91957-73-2, Carbostyryl, 3-ethyl-4,6-dimethoxy-
(and its spectrum)
RN 91957-73-2 CAPLUS
CN Carbostyryl, 3-ethyl-4,6-dimethoxy- (7CI) (CA INDEX NAME)



L28 ANSWER 209 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1961:144230 CAPLUS

DOCUMENT NUMBER: 55:144230

ORIGINAL REFERENCE NO.: 55:27333d-i,27334a-f

TITLE: Preparation of 3-methyl-6- and -7-carboxy-2-quinoxalines

AUTHOR(S): Blackburn, Wm.; Danzig, Morris; Hubinger, Henry; Soisson, Donald; Schultz, Harry P.

CORPORATE SOURCE: Univ. of Miami, Coral Gables, FL

SOURCE: Journal of Organic Chemistry (1961), 26, 2805-9

CODEN: JOCEAH; ISSN: 0022-3263

DOCUMENT TYPE: Journal

LANGUAGE: Unavailable

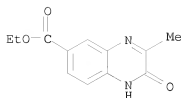
AB 3-Methyl-6-carboxy-2-quinoxalinone (I) and 3-methyl-7-carboxy-2-quinoxalinone (II), their esters, and dihydro derivs. were prepared by unequivocal procedures. The ambiguous condensation of 3,4-diaminobenzoic acid (III) with AcCO₂H (IV) gave only II, whereas the ambiguous condensation of Et 3,4-diaminobenzoate (V) with Et pyruvate (VI) gave equal portions of I and II. 3-Nitro-4-bromobenzoic acid (24.6 g.), 26.8 g. dl- α -alanine, 33.6 g. NaHCO₃, and 50 ml. H₂O heated 48 hrs. at 95° gave 23.3 g. N-(2-nitro-4-carboxyphenyl)-dl- α -alanine (VII), m. 245-5.5°. VII refluxed 4 hrs. with alc. and H₂SO₄ gave 82% di-Et ester (VIII), m. 92.5-3.0° (alc.-H₂O). Et p-aminobenzoate (16.5 g.) and 15.3 g. dl- α -bromopropionic acid heated 1.5 hrs. on a steam bath gave 10.3 g. N-(4-carbethoxyphenyl)dl- α -alanine (IX), m. 133-5° (H₂O). IX (10.3 g.) added portionwise at 4° in 10 min. to 35 ml. concentrated HNO₃, the mixture kept 15 min. at 23-6° and the product poured over ice gave 5.9 g. N-(2-nitro-4-carbethoxyphenyl)-dl- α -alanine (X), m. 151-2° (PhMe). Hydrolysis of X in refluxing 20% HCl gave 88.5% N-(2-nitro-2-carbethoxyphenyl)-dl- α -alanine (XI), yellow prisms, m. 244-5°. XI (2.54 g.), 1.68 g. NaHCO₃, 25 ml. H₂O, and 2 g. Raney Ni reduced 1 hr. at 50° and 60 lb./sq. in. gave 1.2 g. 3-methyl-7-carboxy-3,4-dihydro-2-quinoxalinone (XII), m. 291-3° (95% alc.). XII (618 mg.), 6 ml. 10% NaOH, and 3 ml. 30% H₂O₂ heated 1 hr. gave 600 mg. II, prisms, m. 329-32° (decomposition) (H₂O). Reduction of 100 mg. II with Raney Ni at 25° in 5 ml. H₂O containing 100 mg. NaHCO₃ gave 75 mg. XII. XI (2.8 g.), 0.2 g. 5% PdCl₂ on C, and 30 ml. alc. reduced 2 hrs. at 100° and 60 lb./sq. in. gave a product, which (treated 15 min. on the steam bath with 10 ml. H₂O and 3.5 ml. 30% H₂O₂) gave 125 mg. 3-methyl-7-carbethoxy-2-quinoxalinone (XIII), white needles, m. 199-200°. Saponification of XII gave II. II (150 mg.), 20 ml. alc., and 0.5 ml. H₂SO₄ refluxed 4 hrs. gave 3.3% XIII. Et 3-nitro-4-acetamidobenzoate (9 g.), 1 g. Raney Ni, and 60 ml. alc. reduced 2 hrs. at 25° and 60 lb./sq. in. gave 3.8 g. Et 3-amino-4-acetamidobenzoate (XIV), platelets, m. 142-3° (H₂O). Condensation of XIV with Et

dl- α -bromopropionate in alc. gave 20% 2-methyl-5-carbethoxybenzimidazole (XV), m. 180°. In a similar fashion, 3-nitro-4-acetamidobenzoic acid reduced over Pd-C in alc. and then refluxed 4 hrs. with Et dl- α -bromopropionate gave 10% 2-methyl-5-carboxybenzimidazole (XVI), m. 312-14.5°. XVI was transformed into XV. Et m-nitro-benzoate (39 g.) in 150 ml. 95% alc. reduced 3 hrs. at 55° and 80 lb./sq. in. gave 30.7 g. Et 3-aminobenzoate (XVII), b₅ 160-1°, n_D 1.5600, d₂₀ 1.1248. XVII and dl- α -bromopropionic acid heated 4 hrs. at 120° gave 28% N-(4-carbethoxyphenyl)-dl- α -alanine (XVIII), m. 115-17° (C₆H₆). When XVIII was treated with HNO₃, only tars resulted.

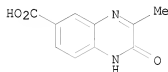
3-Bromo-4-nitroaniline (4.34 g.) and 3.5 ml. concentrated HCl added to 100 ml. H₂O, the mixture treated in 8 min. with 1.4 g. NaNO₂ in 8 ml. H₂O and stirred 10 min., 0.6 g. unchanged amine removed, treated with a solution of CuCN (from 5 g. CuSO₄·5H₂O and 5.6g. KCN in 50 ml. H₂O), heated to 90°, the filtrate of diazonium salt added in 15 min., the mixture refluxed 5 min., and filtered, the residue extracted with hot H₂O, the filtrates cooled, the precipitate extracted with hot CCl₄, and the extract evaporated gave 1

g. 3-bromo-4-nitrobenzonitrile (XIX), m. 104-5°. Hydrolysis of XIX gave 61% 3-bromo-4-nitrobenzoic acid (XIXa), m. 199-201° (alc.). 3-Amino-4-nitrotoluene (45.6 g.) and 180 g. AcOH treated with 294 g. concentrated H₂SO₄ at 50-60°, the mixture cooled to 0°, treated 1 hr. at 0-5° with 27.6 g. NaNO₂ in 54 ml. H₂O, and stirred 0.5 hr. at 0° the solution added portionwise to 450 ml. H₂O, 144 g. KBr, and 67 g. CuBr₂ the mush dissolved in 40 ml. ice H₂O, stirred 15 min. at 0° and heated 4 hrs. at 75°, after 12 hrs. at 25°, 1.5 l. H₂O added, and the oil dissolved in 150 ml. Et₂O, washed, and evaporated gave 53 g. 3-bromo-4-nitrotoluene (XX), b₅ 135-40°, m. 35-6°. H₂O (1500 ml.), 36.2 g. MgSO₄, 43.2 g. XX, and 31.6 g. KMnO₄ refluxed 5 hrs., similarly treated twice more with KMnO₄, cooled to 10°, and filtered (13 g. starting material recovered), gave (in the filtrates) 44.3% XIXa. Oxidation of XX with KMnO₄ buffered with CO₂ gave 38% overall yield XIXa. Nonbuffered solns. gave no yield and no starting material. Similar oxidation of 3-chloro-4-nitrotoluene gave 28% 3-chloro-4-nitrobenzoic acid, m. 184-5°. XIXa condensed with dl- α -alanine gave 37.4% N-(2-nitro-5-carboxyphenyl)-dl- α -alanine (XXI), platelets, m. 236-7° (H₂O). 3-Chloro-4-nitrobenzoic acid did not react with dl- α -alanine under the above conditions. Esterification of XXI gave the di-Et ester, orange platelets, m. 58-9° (alc.-H₂O). XXI was similarly converted (13.4% yield) to 3-methyl-3,4-dihydro-6-carboxy-2-quinoxalinone hydrate (XXII), m. 261-2°. XXII oxidized and purified gave 35.9% I, H₂O, m. 334-6° (decomposition). Reduction of I (75 mg.) with Raney Ni at 65° and 60 lb./sq. in. in 5 ml. H₂O containing 100 ml. NaHCO₃ gave 50 mg. XXII. Direct esterification of I gave 6.7% 3-methyl-6-carbethoxy-2-quinoxalinone (XXIII), obtained in 40% yield from the di-Et ester of XXI, prisms, m. 229-30° (C₆H₆). Saponification of XXIII gave I. A solution of 5 g. 3-nitro-4-aminobenzoic acid in 50 ml. 95% alc. catalytically reduced over Pd-C and the solution of III filtered into a H₂O solution of 1.2 equivs. of IV gave 1.2 g. II. V (prepared from Et 3-nitro-4-aminobenzoate) condensed with IV gave 55.5% II. When V was condensed with VI in alc. a 100% yield of mixed esters, m. 173-85° was obtained. Approx. equal portions of the two isomers were present. Recrystn. gave 17% II; the residue gave some I.

IT 105105-48-4
 (Derived from data in the 6th Collective Formula Index (1957-1961))
 RN 105105-48-4 CAPLUS
 CN 6-Quinoxalinecarboxylic acid, 1,2-dihydro-3-methyl-2-oxo-, ethyl ester
 (CA INDEX NAME)



IT 103752-83-6, 6-Quinoxalinecarboxylic acid, 1,2-dihydro-3-methyl-2-oxo-
(and derivs.)
RN 103752-83-6 CAPLUS
CN 6-Quinoxalinecarboxylic acid, 1,2-dihydro-3-methyl-2-oxo- (CA INDEX NAME)



L28 ANSWER 210 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1961:144229 CAPLUS
DOCUMENT NUMBER: 55:144229
ORIGINAL REFERENCE NO.: 55:27332g-i,27333a-d
TITLE: 8-Chloroalloxazine, a new diuretic. Synthesis and structure

AUTHOR(S): Petering, Harold G.; Van Giessen, Garrett J.
CORPORATE SOURCE: Upjohn Co., Kalamazoo, MI
SOURCE: Journal of Organic Chemistry (1961), 26, 2818-21
CODEN: JOCEAH; ISSN: 0022-3263

DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
OTHER SOURCE(S): CASREACT 55:144229

AB 8-Chloroalloxazine (I), a new diuretic, was obtained in good yield and purity by the condensation of alloxan (II) with 4-chloro-2-aminoaniline (III) in strongly acidic solns. or in glacial AcOH in the presence of boric acid. When the same condensation was carried out in weakly acidic aqueous solution or in neutral solvents, 2-hydroxy-6-chloroquinoxaline-3-carboxylic acid ureide (IV) was the main or exclusive product. Evidence for the structure of these compds. was derived from degradation studies, phys. properties, and a comparison of these with the products formed when II and 1,2-diaminobenzene (V) were condensed, the latter reaction giving well characterized compds. V (1.08 g.) in 10 ml. AcOH added to 20 ml. AcOH containing 1.6 g. II.H₂O and 0.12 g. boric acid, stirred 4 hrs., and the solid collected gave 1.44 g. alloxazine, m. above 400°. Catalytic reduction of 4-chloro-2-nitroaniline with PtO₂ in Et₂O or EtOAc gave III. Condensation of III and II in AcOH in the presence of boric acid at room temperature was carried out. Thus, 11 g. III and 10 g. II condensed in 150 ml. AcOH with 0.64 g. boric acid (stirred 4 hrs. at 40°) gave 12.9 g. I, m. 330-5°. This reaction was studied to determine the amount of boric acid necessary to prevent formation of IV as an impurity. These data indicated that more than 0.03 molar equivalent of boric acid was needed in relation to III and II to obtain I free of IV. III (1 g.) and 1 g. II was added to HCl of various normalities, the mixture heated to 90°, held there 1 hr., cooled, and refrigerated 14 hrs., and the solid removed and washed; the product obtained when 1.0 to 5.0N HCl was used as the solvent was much more wettable and soluble than the product obtained by the above procedure. The following results were obtained (normality of HCl, yield,

ratio of I to IV given): 0.36, 1.38, 1:2; 0.50, 1.29, 1:0.1; 1.0, 1.22, trace of IV; 1.25, 1.28, trace IV; 2.5, 1.26, only I; 5.0, 1.14, only I. V (1.08 g.) combined with 1.3 g. II and the mixture stirred 1.75 hrs. at room temperature with 40 ml. 95% alc. gave 1.72 g. 2-hydroxyquinoxaline-3-carboxylic acid ureide, m. 249-51°. III (2.84 g.) and 3.2 g. II in 150 ml. 10% AcOH stirred at room temperature 4 hrs. gave 5 g. IV, m. 249-50°. I (2.75 g.) in 17 ml. 75% H2SO4 (preheated to 200°) was held 10 min. at 195-205°, 15 min. at 165-75°, 1 hr. at 135-45°, and finally 20 min. at 120°, poured over ice, the mixture extracted with Et2O, the unchanged material removed by centrifugation, washed, and dried. The supernatant was made alkaline and again extracted with Et2O. The alkaline

washes

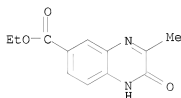
combined and dried gave 1.2 g. 2-amino-7-chloroquinoxaline, m. 199-200° (alc.-C6H6). IV (1 g.) in 20 ml. 50% H2SO4 heated 0.5 hr. at 135° and poured onto ice gave 0.61 g. 2-hydroxy-6-chloroquinoxaline, m. 300-5°. V (200 mg.) treated 10 min. at 90° with 3 ml. POCl3, excess POCl3 distilled, and the oily residue mixed with ice H2O gave 100 mg. 2,6-dichloroquinoxaline, m. 153-5°. Alloxazine (2.75 g.) degraded in 75% H2SO4 as indicated above gave 1.18 g. unchanged material. The yellow solid when recrystd. gave 2-aminoquinoxaline, m. 155-7° (C6H6-Et2O). Ultraviolet spectra and chromatographic behavior of the above compds. were given in tables.

IT 105105-48-4

(Derived from data in the 6th Collective Formula Index (1957-1961))

RN 105105-48-4 CAPLUS

CN 6-Quinoxalinecarboxylic acid, 1,2-dihydro-3-methyl-2-oxo-, ethyl ester (CA INDEX NAME)



L28 ANSWER 211 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1961:54315 CAPLUS

DOCUMENT NUMBER: 55:54315

ORIGINAL REFERENCE NO.: 55:10455i,10456a-d

TITLE: Nitration of quinoxalines (Addendum)

AUTHOR(S): Otomasu, Hirotaka; Yoshida, Kei

CORPORATE SOURCE: Hoshi Coll. Pharm., Tokyo

SOURCE: Chemical & Pharmaceutical Bulletin (1960), 8, 475-8

CODEN: CPBTAL; ISSN: 0009-2363

DOCUMENT TYPE: Journal

LANGUAGE: Unavailable

AB The previous report (CA 53, 10243a) that nitration of the 3,2-Me(HO) derivative (I) of quinoxaline (II) gave its 6-O2N derivative was reexamd. Nitration of 0.5 g. 2-HO derivative (III) of II by warming 10 min. at 40° with 5 cc. concentrated H2SO4 and 0.35 g. powdered KNO3 with rapid stirring yielded 77% 6-O2N derivative (IV) of III, m. 306°. The structure of IV was confirmed by heating it 2 hrs. in an oil bath with POCl3 to form the 2,6-Cl(O2N) derivative of II, m. 202°, identical with the compound reported by Horner, et al. (CA 48, 2692b), and further confirmed by treatment of 1 g. IV in alkaline solution with 3 cc. Me2SO4 to give.

1-methyl-2-oxo-6-nitro-1,2-dihydroquinoxaline, m. 213°, identical with the compound (0.8 g.) obtained by refluxing 1 hr. 1 g.

2,4-H₂N(O₂N)C₆H₃NHMe with 1.7 g. BuO₂CCHO (V) in EtOH. However, under different nitration conditions (concentrated HNO₃ in AcOH at room temperature)

III

gave the 7-O₂N derivative (VI) (Asano and Asai CA 53, 21979b), m. 275-6°. In confirmation, 4 g. 2,4-H₂N(O₂N)C₆H₃NH₂ (VII) was refluxed 2 hrs. with 4 g. V in EtOH to give 0.8 g. IV and 3 g. VI, converted with POCl₃ to the 2,7-Cl(O₂N) derivative of II, m. 185-6°. Repetition of the previously described (loc. cit.) condensation of 1.2 g. VII with 0.8 g. AcCO₂H gave not only 0.8 g. 7-O₂N derivative (VIII) of 2-hydroxy-3-methylquinoxaline (IX), m. 255°, but also 0.2 g. 6-O₂N derivative (X) of IX, m. 280° (decomposition), each converted with POCl₃ to the corresponding 2,3,7- and 2,3,6-ClMe(O₂N) derivs. of II, m. 153° and 136°, resp. X was identical with the nitration product of I. Infrared curves for samples of IV, VI, VIII, and X prepared both by condensation and by nitration confirmed the assigned structures.

IT

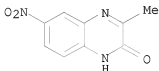
19801-10-6P, 2-Quinoxalinol, 3-methyl-6-nitro-
RL: PREP (Preparation)
(preparation of)

RN

19801-10-6 CAPLUS

CN

2(1H)-Quinoxalinone, 3-methyl-6-nitro- (CA INDEX NAME)



L28 ANSWER 212 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1960:103447 CAPLUS

DOCUMENT NUMBER: 54:103447

ORIGINAL REFERENCE NO.: 54:19681c-i,19682a-e

TITLE: Synthesis of heterocycles. XXIV. 4-Hydroxycarbostyrils

AUTHOR(S): Ziegler, E.; Gelfert, K.

CORPORATE SOURCE: Univ. Graz, Austria

SOURCE: Monatshefte fuer Chemie (1959), 90, 858-65

CODEN: MOCMB7; ISSN: 0026-9247

DOCUMENT TYPE: Journal

LANGUAGE: Unavailable

GI For diagram(s), see printed CA Issue.

AB Several 4-hydroxycarbostyrils were prepared by different methods. In the case of CH₂(CONHC₆H₃Me₂-2,5)₂ (I), its reaction with AlCl₃NaCl gave 4-hydroxy-5,8-dimethylcarbostyril (II) as well as the isomeric 4-hydroxy-6,8-dimethylcarbostyril (III). Such a migration of the Me group was not observed in the other compds. investigated. 2,6-Me₂C₆H₃NH₂ (2.42 g.) and 2 g. CH₂(CO₂Et)₂ (IV) heated 90 min. at 180° and the product crystallized from a little EtOH gave 2.2 g. CH₂(CONHC₆H₃Me₂-2,6)₂ (V), m. 253°. CH₂(CO₂H)₂ (2 g.) and 5.2 g. 2,4,6-Me₃C₆H₂NH₂ (VI) mixed with 2 g. POCl₃, heated 30 min. at 100°, the product treated with aqueous alkali, and crystallized from AmOAc gave 25% CH₂(CONHC₆H₂Me₃-2,4,6)₂ (VII),

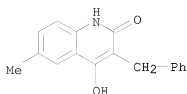
m. 278°. IV (1 g.) and 1.7 g. VI heated 1 hr. at 180° and the product rubbed with EtOH gave 65% VII. IV (4 g.) and 6.5 g. 2,4-Me₂C₆H₃NH₂ (VIII) heated 2 hrs. at 180-210° gave 5.2 g. CH₂(CONHC₆H₃Me₂-2,4)₂ (IX), m. 245° (EtOH-H₂O). 2,3-Me₂C₆H₃NH₂ (X) (5 g.) and 3.5 g. IV heated 1 hr. at 180° gave 3.6 g. CH₂(CONHC₆H₃Me₂-2,3)₂ (XI), m. 200° (AcOH). V, VII, and IX did not undergo cyclization. X (3.6 g.) and 14.4 g. PhCH₂CH(CO₂Et)₂ (XII) heated 40 min. at 250°, the product rubbed with C₆H₆, and crystallized from a large volume of (Cl₂CH)₂ (XIII) or AcOH gave 9.9 g. 3-benzyl-7,8-dimethyl-4-

hydroxycarbostyryl (XIV), m. over 360° (decomposition) (EtOH); acetate m. 250° (C6H6). XIV treated 5 hrs. at 100° with an excess of POC13 gave 50% 2,4-dichloro-3-benzyl-7,8-dimethylquinoline, m. 97° (EtOH). XI (2 g.) added to a melt of 2 g. AlCl3 and 0.5 g. NaCl at 140°, stirred 15 min. at 250°, and worked up as usual gave 0.8 g. 4-hydroxy-7,8-dimethylcarbostyryl (XV), m. 317° (AcOH). XIV (4 g.) added to a melt of 10 g. AlCl3 and 2.4 g. NaCl and heated 10 min. at 200° gave 2.3 g. XV, m. 317°; acetate m. 208° (EtOAc). XV treated as above with POC13 gave 2,4-dichloro-7,8-dimethylquinoline, m. 73° (EtOH). 4-MeC6H4NH2 (5 g.) and 24 g. XII heated 30 min. at 250°, the product rubbed with C6H6, and crystallized from XIII gave 11.4 g. 3-benzyl-4-hydroxy-6-methylcarbostyryl (XVI), m. 260°; acetate m. 258°. XVI (3 g.) added to a melt of 7.5 g. AlCl3 and 1.8 g. NaCl and the mixture heated 10 min. at 180° gave 1.8 g. 4-hydroxy-6-methylcarbostyryl (XVII), m. 325° (decomposition) (EtOH or AcOH); acetate m. 203° (AmOAc). XVII was further characterized by its conversion (POCl3, 2 hrs. at 100°) into 70% 2,4-dichloro-6-methylquinoline, m. 91° (MeOH). 2-MeC6H4NH2 (1 g.) and 4.8 g. XII heated 20 min. at 250°, the product rubbed with C6H6, and crystallized from AcOH gave 2.4 g. 3-benzyl-4-hydroxy-8-methylcarbostyryl (XVIII), m. 275°; acetate m. 225-6° (C6H6). XVIII (10 g.) added to a melt of 25 g. AlCl3 and 6 g. NaCl at 140°, towards the end of the reaction the mixture heated quickly to 180°, kept 5 min. at 180°, and the product crystallized from AcOH gave 6.1 g. 4-hydroxy-8-methylcarbostyryl, m. above 360° (decomposition) [acetate m. 208° (C6H6)], converted into 72% 2,4-dichloro-8-methylquinoline, m. 85° (EtOH). 2,5-Me2C6H3NH2 (XIX) (2.4 g.) and 9.6 g. XII heated 40 min. at 250°, the product rubbed with C6H6, and crystallized from AcOH gave 74% 3-benzyl-4-hydroxy-5,8-dimethylcarbostyryl, m. 250° [acetate m. 217° (C6H6)], converted into 43% 3-benzyl-2,4-dichloro-5,8-dimethylquinoline, m. 95° (EtOH). VIII (0.6 g.) and 2.4 g. XII heated 30 min. at 260°, the product rubbed with C6H6, and crystallized from XIII gave 90% 3-benzyl-4-hydroxy-6,8-dimethylcarbostyryl (XX), m. 258° [acetate m. 245° (C6H6)], converted (POCl3, 3 hrs. at 100°) into 48% 3-benzyl-2,4-dichloro-6,8-dimethylquinoline, m. 92° (EtOH). XX (2 g.) added with stirring to a melt of 5 g. AlCl3 and 1.2 g. NaCl at 140°, the mixture heated 10 min. at 200°, decomposed with ice and dilute HCl, and the product crystallized from AcOH gave III, m. 312° (decomposition) [acetate m. 254° (C6H6)], converted into 87% 2,4-dichloro-6,8-dimethylquinoline (XXI), m. 115.5° (EtOH-H2O). III (0.5 g.) and 1.3 g. XII heated 30 min. at 230°, the product rubbed with C6H6, and crystallized from PhNO2, gave 88% XXII (R = CH2Ph) (XXIII), m. 326°. XXIII in AlCl3NaCl heated 10 min. at 200°, the melt decomposed, the product repptd. from NaOH with HCl, and crystallized from PhNO2 gave 46% XXII (R = H) (XXIV), m. 300°. Heating III and CH2(CO2C6H3Cl2-2,4)2 15 min. at 230° gave 60% XXIV. XIX (5 g.) and 3.5 g. IV heated 90 min. at 180°, the product rubbed with EtOH, and crystallized from AcOH gave 5.4 g. I, m. 236-7°. I (5 g.) stirred into a melt of 5 g. AlCl3 and 1.5 g. NaCl at 150°, towards the end of the reaction the mixture heated 30 min. at 250°, and worked up gave 1.85 g. mixture (XXV) of II and III. The same mixture was obtained by heating II in AlCl3-NaCl 20 min. at 230°; the mixture was difficultly separable. XXV (1.6 g.) in 20 cc. POC13 heated 3 hrs. at 100° and the product (1.35 g.) crystallized with hot MeOH gave 2,4-dichloro-5,8-dimethylquinoline, m. 80.5°; XXI, m. 115.5°, remained in the filtrate. XX treated as above with AlCl3-NaCl gave predominantly III; repeated recrystn. from AcOH gave 80% III, m. 312° (decomposition).

IT 108973-32-6P, Carbostyryl, 3-benzyl-4-hydroxy-6-methyl-
 RL: PREP (Preparation)
 (preparation of)

RN 108973-32-6 CAPLUS

CN 2(1H)-Quinolinone, 4-hydroxy-6-methyl-3-(phenylmethyl)- (CA INDEX NAME)



L28 ANSWER 213 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1960:103446 CAPLUS

DOCUMENT NUMBER: 54:103446

ORIGINAL REFERENCE NO.: 54:19680h-i,19681a-c

TITLE: Synthesis of heterocycles. XXIII. Synthesis of

4-hydroxycarbostyryl and its derivatives

Ziegler, E.; Gelfert, K.

Univ. Graz, Austria

SOURCE: Monatshefte fuer Chemie (1959), 90, 822-6

CODEN: MOCMB7; ISSN: 0026-9247

DOCUMENT TYPE: Journal

LANGUAGE: Unavailable

OTHER SOURCE(S): CASREACT 54:103446

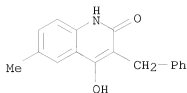
AB cf. CA 54, 14239d. PhNH₂ (4.80 g.), 7.8 g. CH₂(CO₂H)₂ (I), and 17 g. POC13 heated 30 min. at 100°, the mixture decomposed, the product repptd. twice from NaOH with HCl, and crystallized from p-cresol gave 4.5 g. 4-hydroxycarbostyryl (II), m. 360°. A similar mixture mixed with 6 g. naphthalene (III) (suitable for eliminating the formation of contaminating pyronocarbostyryls) heated 15 min. at 100°, the III steam-distilled, and the product isolated with aqueous NaOH gave 4 g. II. Similarly were prepared the following derivs. of II (starting amine, conditions, derivative of II formed, m.p., % yield with III, % yield without III given): 3-ClC₆H₄NH₂, 30 min. at 100°, 7-Cl, over 360° (PhNH₂), 60, 85; 4-MeC₆H₄NH₂, 30 min. at 100°, 6-Me, 325° (decomposition) (p-cresol or AcOH), 49, 54; 2,5-Me₂C₆H₃NH₂ (IV), 2 hrs. at 100°, 5,8-di-Me, over 360° (AcOH), -, 30 [in addition alkali insol. CH₂(CONHC₆H₃Me₂-2,5)₂, m. 236-7° (AcOH), was obtained]; 2,4-Me₂C₆H₃NH₂, 30 min. at 100°, 6,8-di-Me, 312° (decomposition) (PhNH₂ or AcOH), 42, 46; 2,3-Me₂C₆H₃NH₂, 30 min. at 100°, 7,8-di-Me, 317° (AcOH), -, 58; Ph₂NH, 1 hr. at 90-110°, 1-Ph, 295° (PhNO₂), 42, -; PhCH₂NH₂, 1 hr. at 90-110°, 1-PhCH₂, 283°, 40, - (with POBr₃ as the condensation agent a somewhat better yield was obtained); PhNH₂ [with PhCH₂CH(CO₂H)₂ (V) and POC13], 20 min. at 100°, 3-PhCH₂, 214-16° (EtOH or PhCl), -, 80 (not necessary to use III in this case); IV (with V and POC13), 2 hrs. at 100°, 3-benzyl-5,8-dimethyl, 250° (AcOH), -, 61 (not necessary to use III in this case). IV (2.5 g.), 2 g. I, and 25 g. POC13 heated 3 hrs. at 100°, the material extracted with Et₂O, and the extract evaporated gave 0.8 g. 2,4-dichloro-5,8-dimethylquinoline, m. 80.5° (EtOH or MeOH). p-BrC₆H₄NH₂ (1 g.), 1 g. I, 4 g. III, and 4 g. POC13 heated 15 min. at 90-110°, the III removed, the residual product rubbed with C₆H₆, and crystallized from dioxane-H₂O and then from dioxane gave 1 g. presumably 4-chloro-6-bromocarbostyryl, m. 219°, insol. in alkali and mineral acid.

IT 108973-32-6 199811-65-6

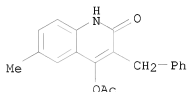
(Derived from data in the 6th Collective Formula Index (1957-1961))

RN 108973-32-6 CAPLUS

CN 2(1H)-Quinolinone, 4-hydroxy-6-methyl-3-(phenylmethyl)- (CA INDEX NAME)



RN 109811-65-6 CAPLUS
 CN Carbostyryl, 3-benzyl-4-hydroxy-6-methyl-, acetate (6CI) (CA INDEX NAME)



L28 ANSWER 214 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1960:103445 CAPLUS

DOCUMENT NUMBER: 54:103445

ORIGINAL REFERENCE NO.: 54:19680a-h

TITLE: Syntheses of hydrogenated quinolines and isoquinolines

as analgesics. XVII. Steric structure of

8-aza-N-methyl-des-N-morphinan

Oshiro, Susumu

CORPORATE SOURCE: Tanabe Seiyaku, Osaka

SOURCE: Tetrahedron (1960), 8, 304-12

CODEN: TETRAB; ISSN: 0040-4020

DOCUMENT TYPE: Journal

LANGUAGE: Unavailable

GI For diagram(s), see printed CA Issue.

AB The configuration of positions 13 and 14 in the title compound, III, was investigated. V (1.0 g.) in 7 ml. 20% HCl heated 5 hrs. on a steam bath and the mixture evaporated in vacuo, the dry residue basified with aqueous

K2CO3,

and extracted with Et2O gave 0.8 g. 10-phenyl-1,2,3,4,5,6,7,10-octahydroquinoline, b0.5 115-18°, v 3250, 1660 cm.-1 (in neutral

medium, α,β -unsatd. amine), v 1692 cm.-1 (in acid medium, ketimine); HClO4 salt m. 174-6°; picrate m. 152-3° (Me2CO).

The HClO4 salt (0.7 g.) in 25 ml. alc. hydrogenated 5 min. at 20°/1

atmospheric with 0.2 g. PtO2 and the filtered solution evaporated in vacuo gave 10-phenyldecahydroquinoline HClO4 salt, m. 215-17°; picrate m.

157-8°, failing to show absorption of α,β -unsatd. amine.

VIa (0.6 g.) methylated with 5 ml. HCO2H and 1 ml. 35% HCHO gave isomeric

8-methoxycarbonyl-1-methyl-10-phenyldecahydroquinoline (VIIa), m.

95-6°, mixed m.p. with VII 75-80°. VI.HCl (0.5 g.) boiled

10 hrs. with 20 ml. concentrated HCl and the mixture evaporated in vacuo, the

residual

amino acid HCl salt heated 8 hrs. at 130-40° (oil bath) with

polyphosphoric acid (6 g. P2O5 and 6 ml. 85% H3PO4) and the cooled mixture diluted with ice H2O, basified with 30% aqueous KOH and extracted below 10°

with Et2O, the washed and dried exts. evaporated, and the residue crystallized (Et2O) gave 0.15 g. 8-aza-10-oxodes-N-morphinan (VIII), m. 90-2°, v

3300, 1690, 760 cm.-1, methylated (120 mg.) with 60 mg. Me2SO4 and 110 mg.

powdered K2CO3 in Me2CO to authentic I. VIII (0.3 g.) acetylated 6 hrs. at

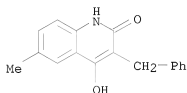
100° with 2 ml. Ac2O and 1 ml. C5H5N and the mixture decomposed with ice H2O gave 0.3 g. N-acetyl-8-aza-10-oxodes-N-morphinan (IX), m. 195-7°. IX (170 mg.) in 3 ml. Me3COH and 50 mg. K in 3 ml. Me3COH gently refluxed at 100° 5 hrs. and the solvent evaporated, the residue diluted with H2O, and repeatedly extracted with EtOAc gave 130 mg. 8-aza-10-hydroxy-8,10-(α -oxoethano)des-N-morphinan (X), m. 238-40°, ν 3240, 1620 cm.⁻¹, ultraviolet absorption curve indicating disappearance of characteristic absorption of an aromatic ketone and presence of a benzene ring. X (350 mg.) heated 10 hrs. at 100° with 5 ml. Ac2O and 0.1 ml. concentrated H2SO4 and the mixture decomposed with ice H2O gave the acetoxy derivative, 10-acetoxy-8-aza-8,10-(α -oxoethano)des-N-morphinan, C20H23NO3, m. 188-90°, ν 1725 cm.⁻¹ VIII (0.3 g.) in 20 ml. alc. and 3 ml. 17% alc. HCl hydrogenated with 0.1 g. PtO2 25 min. and the filtered solution evaporated gave 8-aza-10-hydroxydes-N-morphinan HCl salt, m. 246° (decomposition), basified with aqueous K2CO3 to give the free base, C16H21NO, m. 137-9° (petr. ether). Formation of the lactam X was only possible when rings B/C were in the cis position and consequently III had the morphinan type of structure with B/C and C/D rings in the cis and trans position, resp.

IT 108973-32-6 109811-65-6

(Derived from data in the 6th Collective Formula Index (1957-1961))

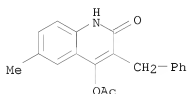
RN 108973-32-6 CAPLUS

CN 2(1H)-Quinolinone, 4-hydroxy-6-methyl-3-(phenylmethyl)- (CA INDEX NAME)



RN 109811-65-6 CAPLUS

CN Carbostryril, 3-benzyl-4-hydroxy-6-methyl-, acetate (6CI) (CA INDEX NAME)



L28 ANSWER 215 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1960:17011 CAPLUS

DOCUMENT NUMBER: 54:17011

ORIGINAL REFERENCE NO.: 54:3423e-g

TITLE: 4-Methyl-2,3-dihydrofuro [2,3-b]quinolines

AUTHOR(S): Mori, Yo; Mihashi, Susumu; Ohta, Tatsuo

CORPORATE SOURCE: Tokyo Coll. Pharm.

SOURCE: Chemistry & Industry (London, United Kingdom) (1959) 1160-1

CODEN: CHINAG; ISSN: 0009-3068

DOCUMENT TYPE: Journal

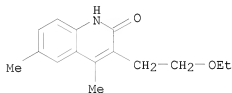
LANGUAGE: Unavailable

OTHER SOURCE(S): CASREACT 54:17011

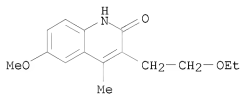
AB The Na derivative of AcCH2CONHPh boiled with EtO(CH2)2Br in absolute EtOH, or 2

ml. PhNH₂ heated with 10 g. AcCH(CH₂CH₂OEt)-CO₂Et 1 hr. at 160° gave AcCH(CH₂CH₂OEt)CONHPh, which treated with concentrated H₂SO₄ (Knorr synthesis) gave 3-(2-ethoxyethyl)-4-methylcarbostyryl (I), m. 142-3° (MeOH), 1.7 g. of which heated 2 hrs. at 105-15° with 54 g. polyphosphoric acid gave the title compound (II), m. 123-3.5° (dilute EtOH). I had λ 271 and 326 mμ, characteristic of the 2-quinoline structure, and strong amide carbonyl absorption at 1650 cm.⁻¹ II showed sharp absorption at 1630 cm.⁻¹ and λ 228, 264, 273, 313, and 327 mμ, characteristic of quinolines with an ether function in the 2-position. Similarly prepared were the following derivs. of I (ring substituent and m.p. given): 6-Me, 170-0.5°; 6-MeO, 151-1.5°; 7-Cl, 158.5-9°; 6-Cl, above 360° The following derivs. of II: 6-Me, 182°; 6-MeO, 161-2°; 7-Cl, 131-2°; and 6-Cl, 230-1°.

IT 92652-02-3P, Carbostyryl, 3-(2-ethoxyethyl)-4,6-dimethyl-
 92652-41-0P, Carbostyryl, 3-(2-ethoxyethyl)-6-methoxy-4-methyl-
 RL: PREP (Preparation)
 (preparation of)
 RN 92652-02-3 CAPLUS
 CN Carbostyryl, 3-(2-ethoxyethyl)-4,6-dimethyl- (6CI, 7CI) (CA INDEX NAME)



RN 92652-41-0 CAPLUS
 CN Carbostyryl, 3-(2-ethoxyethyl)-6-methoxy-4-methyl- (6CI, 7CI) (CA INDEX NAME)



L28 ANSWER 216 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1959:56482 CAPLUS
 DOCUMENT NUMBER: 53:56482
 ORIGINAL REFERENCE NO.: 53:10243a-f
 TITLE: Nitration of quinoxalines
 AUTHOR(S): Otomasu, Hirotsuka; Nakajima, Shoichi
 CORPORATE SOURCE: Hoshi Coll. Pharm., Tokyo
 SOURCE: Chemical & Pharmaceutical Bulletin (1958), 6, 566-70
 CODEN: CPBIAL; ISSN: 0009-2363
 DOCUMENT TYPE: Journal
 LANGUAGE: Unavailable
 AB Quinoxaline (I), its N-oxide, and its 2,3-Me₂ derivative resisted nitration even with concentrated H₂SO₄ and fuming HNO₃ (d. 1.52) at 100°. The presence of polar substituents in either ring facilitated nitration. The 6-MeO derivative (II) of I (0.43 g.) in 4 cc. concentrated H₂SO₄ at 0°, well stirred during the addition of 0.5 g. powdered KNO₃, the mixture kept 2 hrs. at

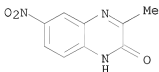
room temperature, and poured on ice yielded 0.45 g. 5,6-O2N(MeO) derivative (III) of

I, m. 203° (Me2CO), and this catalytically reduced (10% Pd-C) in MeOH gave the 5,6-H2N(MeO) derivative (IV) of I, m. 96° (ligroine). The position of the NO2 group in III was confirmed by the synthesis of IV from 4,2,3-H2N(O2N)2C6H2OMe (V). V (5 g.) catalytically reduced (Pd-C) to 2,3,4-(H2N)3C6H2OMe, and this under H warmed 30 min. with 10 g. glyoxal bisulfite in 200 cc. hot H2O, the mixture refluxed 1.5 hrs. on a water bath, evaporated in vacuo, made alkaline with NaOH, and the resulting solid extracted with

CHCl3 yielded 1.2 g. IV, identical with the sample from III. No isomeric 5,8-H2N(MeO) derivative (VI) of I was produced in this reaction. However, 4 g. 4,2,3-AcNH(O2N)2C6H2OMe in place of V similarly reduced and condensed with (CHO)2 yielded 1.8 g. 5,8-AcNH(MeO) derivative of I, m. 149°, hydrolyzed by warming 1 hr. on a water bath with 20% NaOH and extracting the cooled mixture with CHCl3 to give VI, m. 125° (C6H6). The 5-MeO derivative of I (0.5 g.) in 5 cc. concentrated H2SO4 warmed 15 min. at 60° with 1 g. KNO3 and the mixture poured into 80 cc. ice water yielded 0.6 g. 5,6,8-MeO(O2N)2 derivative of I, m. 204-6° (MeOH), and no mono-O2N derivative could be formed even at a lower temperature 3,2-Me(HO) derivative of I (5 g.)

nitrated as was II yielded 5 g. 3,2,6-Me(HO)(O2N) derivative (VII) of I, m. 270° (Me2CO), but no nitration of the 2,3-Cl(Me) or 2,3-(EtO)Me derivs. of I took place under similar conditions. In an attempt to confirm the position of the NO2 group in VII by synthesis, 1.5 g. 3,4-(H2N)2C6H3NO2 (VIII) in 200 cc. MeOH was boiled 1 hr. with 1 g. AcCO2H and the MeOH evaporated to yield 1.85 g. 3,2,7-Me(HO)(O2N) derivative of I, m. 255° (MeOH), obviously different from VII. VII (1 g.) methylated with 4 cc. Me2SO4 in 20 cc. 20% NaOH yielded 0.55 g. 1,3-dimethyl-2-oxo-6-nitro-1,2-dihydroquinoxaline, m. 218° (Me2CO), formed also (0.16 g.) from 0.2 g. 2,4-H2N(O2N)C6H3NHMe in 50 cc. MeOH condensed as was VIII with 0.2 g. AcCO2H. This synthesis confirms the 6-position of NO2 in VII.

IT 19801-10-6P, 2-Quinoxalinol, 3-methyl-6-nitro-
RL: PREP (Preparation)
(preparation of)
RN 19801-10-6 CAPLUS
CN 2(1H)-Quinoxalinone, 3-methyl-6-nitro- (CA INDEX NAME)

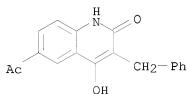


L28 ANSWER 217 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1959:23305 CAPLUS
DOCUMENT NUMBER: 53:23305
ORIGINAL REFERENCE NO.: 53:4273b-d
TITLE: Synthesis of heterocycles. XII. Anibine
AUTHOR(S): Ziegler, E.; Nolken, E.
CORPORATE SOURCE: Univ. Graz, Austria
SOURCE: Monatshefte fuer Chemie (1958), 89, 391-3
CODEN: MOCMB7; ISSN: 0026-9247
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable

AB From the South American rosewood tree (Aniba duckei), Mors, et al. (C.A. 52, 405c), isolated the alkaloid anibine (I), 4-methoxy-6-(3-pyridyl)-2-pyrone. A simple synthesis of I is described. 3-Acetylpyridine (2 g.) and 4.8 g. PhCH2CH(CO2C6H3Cl2-2,4)2 (II) heated 30 min. at 250°,

the melt triturated with C6H6, and the residue crystallized from PhNO2, PhOAc, m-MeC6H4OH, or from a large volume of BuOH gave 1.4 g. 3-benzyl-4-hydroxy-6-(3-pyridyl)-2-pyrone (III), m. 301°. III (7.7 g.) and 14.3 g. finely powdered AlCl3 heated 10 min. at 160°, the mixture decomposed with ice, the product purified by solution in NaOH and precipitation with AcOH and by further solution in dilute HCl, and crystallized from dioxane, PhNO2, or BuOH gave 78% 4-hydroxy-6-(3-pyridyl)-2-pyrone (IV), m. 212°. IV (0.5 g.) in 8 ml. absolute MeOH treated portion-wise under ice-cooling with 0.22 g. CH2N2 in 30 ml. Et2O, the mixture kept 4 hrs., the Et2O evaporated, the remaining solution warmed, and let crystallize gave 0.33 g. I, m. 177-8° (after sublimation at 130°/0.3 mm. and crystallization from EtOH); the ultraviolet and infrared spectra were identical with natural I. An attempt to prepare 4-methoxy-6-piperonyl-2-pyrone, another product isolated from the rosewood tree, failed (cleavage with AlCl3). Acetopiperone (1 g.) and 3.9 g. II heated 30 min. at 255°, the melt cooled, treated with C6H6, and crystallized from EtOH, BuOH, dioxane, PhCl, or AcOH gave 1.7 g. 3-benzyl-4-hydroxy-6-piperonyl-2-pyrone, m. 266°.

IT 108717-22-2P, Carbostyryl, 6-acetyl-3-benzyl-4-hydroxy-
RL: PREP (Preparation)
(preparation of)
RN 108717-22-2 CAPLUS
CN Carbostyryl, 6-acetyl-3-benzyl-4-hydroxy- (6CI) (CA INDEX NAME)



L28 ANSWER 218 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1959:23304 CAPLUS
DOCUMENT NUMBER: 53:23304
ORIGINAL REFERENCE NO.: 53:4272b-i, 4273a-b
TITLE: Synthesis of heterocycles. XI. 4-Hydroxy-2-pyrones
AUTHOR(S): Ziegler, E.; Juneke, H.
CORPORATE SOURCE: Univ. Graz, Austria
SOURCE: Monatshefte fuer Chemie (1958), 89, 323-30
CODEN: MOCMB7; ISSN: 0026-9247
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
OTHER SOURCE(S): CASREACT 53:23304
GI For diagram(s), see printed CA Issue.
AB cf. C.A. 52, 17253c. Aryl alkyl ketones were treated with PhCH2CH(CO2C6H3Cl2-2,4)2 (I) at about 250° to give 3-benzyl-4-hydroxy-2-pyrones which were easily debenzylated with AlCl3. The mechanism of this reaction is discussed. PhAc (6 g.) and 12 g. I heated 2.5 hrs. at 250°, the melt cooled, rubbed 1st with petr. ether (II) and then with C6H6, and the solid (3.5 g.) crystallized from CHCl2CHCl2 (III) or PhNO2 gave 3-benzyl-4-hydroxy-6-phenyl-2-pyrone (IV), m. 253-4° (Ac derivative, m. 122-3°). IV (4.4 g.) and 8.2 g. AlCl3 heated 10 min. at 160°, the melt decomposed, dissolved in aqueous NaOH, and the soluble product crystallized from PhNO2 gave 1.6 g. 4-hydroxy-6-phenyl-2-pyrone (V), m. 245°; the alkaline insol. material was identified as anthracene; some impure phenanthrene was also obtained. V (0.4 g.) in 10 ml. hot 1:1 EtOH-AcOH treated with 5 ml. aqueous CH2O gave

3,3'-methylenebis(4-hydroxy-6-phenyl-2-pyrone), m. 262-3° [PhCl, xylene, dioxane (VI)-H2O]. V (0.6 g.) and 1.6 g. I heated 1 hr. at 250°, the melt cooled, rubbed with C6H6 and EtOH, and the solid (0.7 g.) crystallized from AcOH or PhMe gave

3'-benzyl-4'-hydroxy-6-phenyl-(1,2-pyrone[5',6':3,4]-2-pyrone) (VII), m. 252-3°. PhAc (4.8 g.) and 15.4 g. CH2(CO2C6H3Cl-2,4) (VIII) heated 30 min. at 250°, the melt cooled, rubbed with EtOH and C6H6, vacuum sublimed, and crystallized from AcOH, PhCl, xylene, or VI-H2O gave 1 g. 4'-hydroxy-6-phenyl(1,2-pyrone[5',6':3,4]-2-pyrone) (IX), m. 249-50°. V (0.5 g.) and 1 ml. CH2(COCl)2 in 3 ml. III heated 15 min. at 110° gave IX. V (1 g.) and 2.5 g. VIII heated 1 hr. at 250° gave IX. VII (0.35 g.) and 0.4 g. AlCl3 heated 5 min. at 160° gave 0.2 g. IX, m. 249-50°. V (1.2 g.), 10 ml. Ac2O, and 2 drops concentrated H2SO4 heated 1 hr. at 140°, cooled, and the solid crystallized from AcOH or C6H6 gave dehydrobenzoylacetic acid (X), m. 170°. X was also obtained by heating 5 moles PhAc and 2 moles CH2(CO2Ph)2 several hrs. PhCH(CO2Ph)2 (6.6 g.) and 4.8 g. PhAc heated 1 hr. at 250°, cooled, rubbed with EtOAc, the product treated with hot EtOH, and the residue (1 g.) crystallized from PhNO2 gave 3,6-diphenyl-4-hydroxy-2-pyrone, m. 312-13° (Ac derivative, m. 140-1°). p-ClC6H4Ac (4 g.) and 6 g. I heated 1 hr. at 250°, the solid rubbed 1st with II and then C6H6, and crystallized from III gave 2.2 g. 3-benzyl-4-hydroxy-6-(p-chlorophenyl)-2-pyrone (XI), m. 262-3°. XI (1 g.) and 1.6 g. AlCl3 heated 5 min. at 160° gave 0.55 g. 4-hydroxy-6-(p-chlorophenyl)-2-pyrone, m. 292° (decomposition) (PhNO2). BzCH2Cl (1.5 g.) and 2.4 g. I heated 1 hr. at 250°, cooled, and the solid rubbed with II or C6H6 and then with EtOH gave 0.7 g. 3-benzyl-4-hydroxy-5-chloro-6-phenyl-2-pyrone, 201° (AcOH or PhMe). BzEt (2.7 g.) and 4.8 g. I heated 30 min. at 250° and then 30 min. at 280°, the crude product dissolved in C6H6 and precipitated with II, and crystallized from AcOH or C6H6 gave 2 g.

3-benzyl-4-hydroxy-5-methyl-6-phenyl-2-pyrone, m. 162-3°. BzCH2Ph (1 g.) and 2.88 g. I heated 90 min. at 200° and the crude product (0.7 g.) crystallized from MeOH gave 3-benzyl-4-hydroxy-5,6-diphenyl-2-pyrone, m. 206-7°. MeC: CH.CO.CH2.CO.O (0.63 g.) and 2.4 g. I heated 20 min. at 250°, rubbed with C6H6, and the crude product (1 g.) crystallized from PhNO2, AcOH, or VI gave 3'-benzyl-4'-hydroxy-6-methyl(pyrone[5',6':3,4]-2-pyrone), m. 225-6°. 2,4-(HO)2C2H8Ac (1.5 g.) and 2.4 g. I heated 30 min. at 250°, the melt (1.2 g.) rubbed with EtOH, and crystallized from VI and then from PhCl gave 0.2 g. 3-benzyl-4-hydroxy-6-(2,4-dihydroxyphenyl)-2-pyrone, m. 253-5° (Ac derivative, m. 162-3°); the VI filtrate treated with H2O and the precipitate crystallized from AmOAc or AcOH gave 0.8

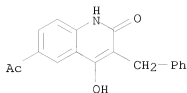
g.

3-benzyl-4,7-dihydroxy-6-acetylcoumarin, m. 250-1° (di-Ac derivative, m. 159-60°). p-HO-C6H4Ac (1.36 g.) and 2.4 g. I heated 1 hr. at 250°, the melt treated with C6H6, the precipitate filtered off, and crystallized from PhNO2 gave 0.2 g. 3-benzyl-4-hydroxy-6-acetylcoumarin, m. 277-8° (Ac derivative, m. 184°). p-H2NC6H4Ac (1.1 g.) and 1.7 g. I heated 30 min. at 250% the solid rubbed with C6H6, washed with EtOH, and crystallized from a large volume of PhNO2 gave 3-benzyl-4-hydroxy-6-acetylcarbosytril, m. 316-17°.

IT 108717-22-2P, Carbostyryl, 6-acetyl-3-benzyl-4-hydroxy-
 RL: PREP (Preparation)
 (preparation of)

RN 108717-22-2 CAPLUS

CN Carbostyryl, 6-acetyl-3-benzyl-4-hydroxy- (6CI) (CA INDEX NAME)



L28 ANSWER 219 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1958:92894 CAPLUS
 DOCUMENT NUMBER: 52:92894
 ORIGINAL REFERENCE NO.: 52:16361f-i,16362a-h
 TITLE: Quinoxalones studies, 2-styryl-3-quinoxalones
 AUTHOR(S): Bodfors, Sven
 CORPORATE SOURCE: Univ. Lund, Swed.
 SOURCE: Justus Liebig's Annalen der Chemie (1957), 609, 103-25
 CODEN: JLCB; ISSN: 0075-4617
 DOCUMENT TYPE: Journal
 LANGUAGE: Unavailable

AB cf. C.A. 21, 2902. The reaction product from PhCH:CHCOCO₂H (I) and o-C₆H₄(NH₂)₂ (II) was shown to be 2-styryl-3-quinoxalones (III). I and II in alc. gave tars, but in 50% alc. HOAc gave 70% III, m. 253°. Similarly, the following 2-substituted 3-quinoxalones were prepared: 4-methoxystyryl (IV), m. 250°; 3-nitrostyryl (V), m. 262° (decomposition); 4-nitrostyryl, m. 305° (also prepared from 2-methyl-3-quinoxalones (VI) and p-O₂NC₆H₄CHO); 2-chlorostyryl, m. 250°; 4-chlorostyryl, m. 275°; phenethyl, m. 214° (also prepared from III with Na-Hg). II and o-O₂NC₆H₄CH:CHCOCO₂H in hot alc. gave 1,2-dihydro-2-hydroxy-2-(2-nitrostyryl)-3-quinoxalones, m. 195°, which in hot HOAc lost H₂O to give 2-(2-nitrostyryl)-3-quinoxalones, m. 265° (decomposition). I and o-H₂NC₆H₄NHPh in 5% alc. HOAc gave 2-styryl-4-phenyl-3-quinoxalones (VII), m. 180°. 2-(2-Nitrostyryl)-4-phenyl-3-quinoxalones, m. 203°, was prepared similarly. I and 2,4-(H₂N)₂C₆H₃Me gave 6 (and/or 7)-methyl-2-styryl-3-quinoxalones (VIII), m. 245-9°. III and Br in HOAc gave 2-(1,2-dibromo-2-phenylethyl)-3-quinoxalones (IX), m. 255° (decomposition), also prepared from II and Ph(CHBr)₂CCOCO₂H. Similar bromination gave IV dibromide, m. 165° (decomposition), V dibromide, m. 240° (decomposition), VII dibromide, m. 240° (decomposition), and VIII dibromide, m. 125° (decomposition). The bromination apparently proceeds by complex formation with Br, since VI and Br gave an unstable dibromo compound decompose about 240°. I and Cl in HOAc-CCl₄ gave III dichloride (X), m. 206° (heated rapidly), also obtained from I and NaNO₂ in concentrated HCl. [I and NaNO₂ in HOAc gave 2-(1,2-dioximino-2-phenylethyl)-3-quinoxalones, m. 229° (decomposition)]. Fusion of X gave 2-(α-chlorostyryl)-3-quinoxalones (XI), m. 229°, which when refluxed in concentrated NaOH gave 2-phenacyl-3-quinoxalones (XII), m. 266° (also obtained from II and BzCH₂CCOCO₂H). Similarly, fusion of IX gave 2-(α-bromostyryl)-3-quinoxalones, m. 191°, better prepared from IX and Ag₂SO₄ in concentrated H₂SO₄. IX and wet C₅H₅N gave III, but 40 g. dry IX heated 30 min. in well-dried C₅H₅N gave 26 g. 2-(α-(1-pyridyl)styryl)-3-quinoxalones bromide (XIII), m. 265°, which gave ppts. with NaClO₄, KI, KSCN, K₂Cr₂O₇, HgCl₂, o-HOC₆H₄CO₂Na, 3-HOC₁₀H₆CO₂Na, and Na₂SO₃ (but not NaHSO₃). XIII and Br in HOAc gave an insol. tribromide (XIV). Solid XIII and excess NaOH gave the corresponding hydroxide (XV), decompose 188°. The structure of XIII was proved by its conversion to XII by concentrated HBr.

Fusion of XIII gave C₅H₅N.HBr and 3-phenylfuroquinoxaline (XVI), m. 196°, also obtained from XV and H₂SO₄ in Ac₂O, from XII and concentrated H₂SO₄, from XI or XIII and NaOH, or from IX and Et₃N in PhNO₂. XVI and Br in HOAc gave 4-bromo-3-phenylfuroquinoxaline, m. 175°, also obtained by fusion of XIV. XIII and Zn in HOAc gave 2-phenylethyl-3-quinoxalone, while XIII and KMnO₄ in Me₂CO gave 2,3-dihydroxyquinoxaline and BzOH. XV is believed to exist in aqueous solution as an open chain tautomer,

i.e. RCH:CPH₂NHCH:CHCH:CHCHO or an isomer [R = 2-(3-oxoquinoxalyl)] since with Me₂CO and alkali an unstable red dye (isolated as the HClO₄ or HBr salt) was obtained, believed to be RCH:CPH₂NHCH:CHCH:CHCH:CHAc. No such dye was obtained with any quaternary salt not containing the quinoxaline ring. By similar reactions the following substituted XIII were prepared:

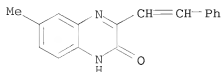
2-(4-methoxystyryl); 2-(3-nitrostyryl), decompose 290°;
2-(4-nitrostyryl) (perchlorate), decompose 300°; 4-phenyl-2-styryl (perchlorate); 6(or 7)-methyl-2-styryl, m. 295°. The use of substituted pyridines gave the following derivs. of XIII: 3-picolinium perchlorate, m. 255°; isoquinolinium bromide, m. 270°. X and quinoline, followed by alc. and AcOH gave 2-α-ethoxy-β-(1-quinolyl)styryl-3-quinoxalone chloride, m. 330° (decomposition), which with concentrated H₂SO₄ gave the acid sulfate, m. 300° (decomposition). XV and N₂H₄.H₂O gave, with loss of C₅H₅N, 2-(α-hydrazinostyryl)-3-quinoxalone (or the tautomeric hydrazone) (XVII), decompose 237°. XVII with p-O₂NCH₆H₄CHO and with AcCH₂CO₂Et gave the hydrazones, m. 266° and 214°, resp. XVII and Ac₂O gave an Ac derivative, m. 280°, which formed no hydrazones. BzCOCO₂Et and II gave 2-phenacyl-3-quinoxalone (XVIII), m. 266°. Similar reactions gave 2-(4-methoxyphenacyl)-3-quinoxalone (XIX), m. 249°, and 2-phenacyl-4-phenyl-3-quinoxalone, m. 205°. XVIII and N₂H₄.H₂O gave 7,8-benzo-2,3-diaza-2,3-dihydro-4-phenylquinoxaline, m. 315°, which could not be obtained by cyclization of XVII. This is presumably because XVII has the trans and XVIII the cis configuration. XVIII and PhNHNH₂ gave a phenylhydrazone, m. 220°, which when refluxed in HOAc gave 7,8-benzo-2,3-diaza-2,3-dihydro-2,4-diphenylquinoxaline, m. 237°. XV and Et₂NH, (CH₂NH₂)₂, or HOCH₂CH₂NH₂ gave 2-(α-iminostyryl)-3-quinoxalone (or the amine tautomer), m. 273°, which gave no reaction with EtI or MeI, but gave with Me₂SO₄ a red, intensely orange fluorescing quaternary salt, m. 180°. The color indicates quaternization of the quinoxaline N. XIX in refluxing Ac₂O gave 3-(4-methoxyphenyl)furoquinoxaline, m. 210°. 3-(4-Tolyl)furoquinoxaline, m. 222°, and XVI were similarly prepared. IX and KOAc refluxed in alc. gave 2-phenylacetyl-3-quinoxalone, m. 218°, giving a red FeCl₃ reaction and a precipitate with Cu(OAc)₂. III and (NCS)₂ in CHCl₃-CCl₄ gave a dithiocyanate, decompose 228°.

IT 108981-54-0 109251-47-0

(Derived from data in the 6th Collective Formula Index (1957-1961))

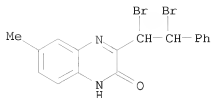
RN 108981-54-0 CAPLUS

CN 2(1H)-Quinoxalinone, 6-methyl-3-styryl- (6CI) (CA INDEX NAME)



RN 109251-47-0 CAPLUS

CN 2(1H)-Quinoxalinone, 3-(α,β-dibromophenethyl)-6-methyl- (6CI)
(CA INDEX NAME)



L28 ANSWER 220 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1958:92893 CAPLUS
 DOCUMENT NUMBER: 52:92893
 ORIGINAL REFERENCE NO.: 52:16360h-1,16361a-f
 TITLE: Cinnolines. IV. Synthesis of 3-acetyl- and 3-carbethoxycinnolines
 AUTHOR(S): Baumgarten, Henry E.; Anderson, Charles H.
 CORPORATE SOURCE: Univ. of Nebraska, Lincoln
 SOURCE: Journal of the American Chemical Society (1958), 80, 1981-4
 CODEN: JACSAT; ISSN: 0002-7863

DOCUMENT TYPE: Journal
 LANGUAGE: Unavailable

AB KOH (7.7 g.) in 200 cc. H₂O treated with stirring with 15.5 g. AcCH₂CO₂Et, stirred 4 hrs., and allowed to stand 20 hrs., 14 g. damp, crude o-H₂NC₆H₄CHO, 8.3 g. NaNO₂, and 250 cc. iced H₂O slurried in a Waring blender, the slurry treated with 25 cc. concentrated HCl and 150 g. crushed ice, blended about 5 min. while being treated with crushed ice, and filtered, the filtrate added during 15 min. at 0° to a mixture of the AcCH₂CO₂K solution, 15 cc. concentrated HCl, and 35 cc. H₂O, neutralized with NaOAc, kept 2 hrs. at room temperature, and filtered, and the residue recrystd. from 25% EtOH or Skellysolve C gave 3.7 g. 3-acetylcinnoline (X), pale yellow needles, m. 155-6°. X (1 g.) in 6 cc. concentrated H₂SO₄ treated at room temperature with 0.4 g. NaN₃ in small portions during 1 hr., kept overnight, poured with stirring onto 12 g. crushed ice, heated 15 hrs. on the steam bath, neutralized with 33% aqueous KOH, and filtered, the filtrate extracted with Et₂O, the extract evaporated, and the residue recrystd. from hot C₆H₆ gave 0.08 g. III, m. 163-4.5°. The diazonium salt solution from 20 g. damp, crude o-H₂NC₆H₄CHO, 14.2 g. NaNO₂, 250 cc. iced H₂O, 42 cc. concentrated HCl, and 150 g. crushed ice blended in a Waring blender and added during 15 min. to 34 g. EtO₂CCH₂CO₂K in 400 cc. H₂O at 0°, the mixture neutralized slowly with 25 cc. concentrated HCl in 50 cc. H₂O and then with NaOAc, warmed during 2 hrs. to room temperature, heated to 60°, cooled, decanted from some tar, and extracted with Et₂O, the extract evaporated, and the residual oil and the tar combined, refluxed with Skellysolve B, filtered, and cooled yielded 3.4 g. 3-carbethoxycinnoline (XI), m. 97-7.5°. The diazonium salt solution from 18 g. damp, crude 5,2-Cl(H₂N)C₆H₄CHO, 11.6 g. NaNO₂, 250 cc. iced H₂O, 35 cc. concentrated HCl, and 150 g. crushed ice added during 15 min. to aqueous AcCH₂CO₂H (from 0.17 mole AcCH₂CO₂Et), neutralized with NaOAc, heated to 75°, cooled, and filtered gave 7 g. crude 4,2-Cl(OHC)C₆H₃NHN:CHAc (XII). m. 143-75° (Skellysolve C), which washed with 10% HCl, dried, and recrystd. from Skellysolve C gave 6.0 g. 6-Cl derivative of X, m. 206-7°. A similar diazonium salt solution added during 15 min. to 0.17 mole EtO₂CCH₂CO₂H at 0°, neutralized with NaOAc, heated to 75°, cooled, and filtered gave 3.8 g. crude product which washed with 10% HCl and recrystd. from Skellysolve C gave 2 g. 6-Cl derivative of X, yellow needles, m. 152.5-53°. A diazonium salt solution from crude

4,2-Cl(H2N)C6H3CHO (from 0.15 mole 4,2-Cl(O2N)C6H3CHO], 10.4 g. NaNO2, 250 cc. iced H2O, 32 cc. concentrated HCl, and 150 g. crushed ice added during 15 min. to aqueous AcCH2CO2H (from 0.15 mole AcCH2CO2Et), neutralized with NaOAc, heated to 75°, and cooled gave 6.5 g. 5-Cl isomer (XIII) of XII, pale yellow needles, m. 140-1° (Skellysolve C). XIII (1.0 g.) in 50 cc. cold concentrated H2SO4 kept overnight, poured onto crushed ice, and filtered, the filtrate neutralized with NaOAc and refiltered, and the combined residues recrystd. from Skellysolve C gave 0.36 g. 7-Cl derivative of X, pale yellow needles, m. 211-12°. A similar run using 50 cc. 20% HCl instead of H2SO4 stirred 4-24 hrs. on the steam bath and worked up in the usual manner gave a mixture of cyclized and uncyclized material. A diazonium salt solution from 4,2-Cl(H2N)C6H3CHO added during 15 min. at 0° to 0.15 mole aqueous EtO2CCH2CO2H, neutralized with NaOAc, heated to 75°, and cooled gave 2.3 g. 5,2-Cl(OHC)C6H3NHN:CHCO2Et, yellow needles, m. 79-80° (Skellysolve C), which could not be cyclized with dilute HCl or with concentrated H2SO4. A duplicate run gave 2.5 g.

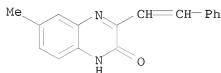
mixture of
cyclized and uncyclized material which repeatedly from Skellysolve C gave 0.4 g. 7-Cl derivative of XI, yellow needles, m. 200-1°.

IT 108981-54-0 109251-47-0

(Derived from data in the 6th Collective Formula Index (1957-1961))

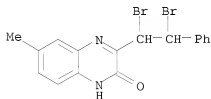
RN 108981-54-0 CAPLUS

CN 2(1H)-Quinoxalinone, 6-methyl-3-styryl- (6CI) (CA INDEX NAME)



RN 109251-47-0 CAPLUS

CN 2(1H)-Quinoxalinone, 3-(α,β -dibromophenethyl)-6-methyl- (6CI)
(CA INDEX NAME)



L28 ANSWER 221 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1956:44595 CAPLUS

DOCUMENT NUMBER: 50:44595

ORIGINAL REFERENCE NO.: 50:8642g-i,8643a-c

TITLE: The preparation and cyclization of substituted acetoacetanilides

AUTHOR(S): Searles, A. Langley; Kelly, Richard J.

CORPORATE SOURCE: New York Univ., New York, NY

SOURCE: Journal of the American Chemical Society (1955), 77, 6075-6

CODEN: JACSAT; ISSN: 0002-7863

DOCUMENT TYPE: Journal

LANGUAGE: Unavailable

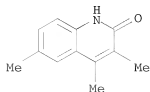
OTHER SOURCE(S): CASREACT 50:44595

AB The following PhNHCOCHRac were prepared by published methods (R, m.p., and % yield given): 2-PhCH₂CH₂, 101.5-102°, 35; p-O₂NC₆H₄CH₂, 141-3° (from C₆H₆-EtOH), 65; iso-Pr, 139-40° (from aqueous MeOH), 81; cyclopentyl, 150.5-1.5°, 67; Am, 72-3° (from petr. ether), 72; C₆H₁₃, 70-1°, 85 (unstable form, m. 55-6°); C₇H₁₅, 64-6° (from petr. ether), 58; 2,5-Me(O₂N)C₆H₃-NHCOCH₂Ac, 119-19.5°, 72 (straw-colored rods which gave a magenta solution with aqueous alc. FeCl₃); o-C₁C₆H₄NH-COCHMeAc, 94-4.5°, 48; p-MeC₆H₄NHCOCHMeAc, 88-9° (from petr. ether), 65; o-MeC₆H₄NHCOCHMeAc, 109.5-11° (with emollescence), 60; o-PhC₆H₄NHCOCHMeAc, 115-15.5°, 77. PhCH₂CHAcCONHPh (4.0 g.) heated 0.5 h. at 96° with 50 cc. 74% H₂SO₄, the mixture poured into 200 cc. cold H₂O, the precipitate filtered, washed with cold H₂O, and recrystd. from EtOH-C₆H₆ gave 3-benzyl-4-methylcarbostyryl (I), white needles, m. 238-40°; the mother liquor concentrated and refrigerated gave addnl. 3.3 g. I. o-MeC₆H₄CH₂CHAcCONHPh (2.0 g.) and 40 cc. 74% H₂SO₄ heated 1.5 h. on the steam bath with occasional stirring, the mixture poured into H₂O and crushed ice, stirred briefly, and filtered, the cake suspended in 300 cc. cold H₂O and allowed to stand 36 h., and the pale tan solid filtered, dried (1.7 g.) and triturated with three 20-cc. portions 1:1 Et₂O-Me₂CO, and the residue recrystd. twice from aqueous EtOH gave 3-benzyl-4,8-dimethylcarbostyryl, clusters of white needles, m. 226.5-7.5°. o-H₂NC₆H₄Ph (33.8 g.) in 300 cc. dry refluxing xylene treated with 1 cc. pyridine and 41.6 g. AcCH₂CO₂Et while removing the volatile material which boiled below 80°, after 1 h. 220 cc. liquid distilled off during 0.5 h., the residual solution refrigerated, and the pale straw-colored deposit (44.7 g.) washed with cold petr. ether and recrystd. from 50% aqueous EtOH gave 42.1 g. o-PhC₆H₄NHCOCH₂Ac (II), white needles, m. 83.5-85°. II (1.27 g.), 1.3 g. P₂O₅, and 25 cc. xylene refluxed 1 h., the mixture cooled, diluted with H₂O, neutralized with KOH, and steam distilled, the residual mixture refrigerated and filtered, and the orange precipitate leached with three 5-cc. portions Me₂CO and recrystd. twice from aqueous EtOH with C gave 0.100 g. 8-phenyl-4-methylcarbostyryl, colorless needles, m. 224.5-25°. Similarly were prepared the following 3-substituted-4-methyl-carbostyryls (3-substituent, m.p., and % yield given): Ph-(CH₂)₂, 211-11.5°, 25; p-O₂NC₆H₄CH₂, 294-6°, 81; iso-Pr, 244-5°, 77; Am, 163-4.5° (with emollescence), 68; C₆H₁₃, 154-4.5° (from aqueous MeOH), 82; C₇H₁₅, 161.5-3.5°, 89; 3-ethyl-4,8-dimethylcarbostyryl, 192.5-93° (with emollescence), 63; 8-chloro-3,4-dimethylcarbostyryl, 208-9°, 80; 3,4,6-trimethylcarbostyryl, 277-7.5°, 91; 3,4,8-trimethylcarbostyryl, 216.5-17.5° (from C₆H₆), 71; 8-Me derivative of I, 226.5-7.5°, 91.

IT 854827-24-0P, Carbostyryl, 3,4,6-trimethyl-
RL: PREP (Preparation)
(preparation of)

RN 854827-24-0 CAPLUS

CN 2(1H)-Quinolinone, 3,4,6-trimethyl- (CA INDEX NAME)



ORIGINAL REFERENCE NO.: 49:8280g-i, 8281a-i, 8282a-i, 8283a-h
 TITLE: Heterocyclic quinones. I. The direct oxidation of 6-hydroxycarbostryls to carbostryl-5,6-quinones
 AUTHOR(S): Holmes, Richard R.; Conrady, James; Guthrie, James; McKay, Robert
 CORPORATE SOURCE: Univ. of N. Dakota, Grand Forks
 SOURCE: Journal of the American Chemical Society (1954), 76, 2400-7
 CODEN: JACSAT; ISSN: 0002-7863
 DOCUMENT TYPE: Journal
 LANGUAGE: Unavailable
 OTHER SOURCE(S): CASREACT 49:42970

AB 4-Methyl-6-hydroxycarbostryl (I) was oxidized in good yield with CrO₃ or Pb(OAc)₄ to 4-methylcarbostryl-5,6-quinone (II). Dry HCl added to II with the formation of 4-methyl-5,6-dihydroxy-8-chlorocarbostryl (III). III formed a di-Ac derivative (IV) with Ac₂O but a tri-Bz derivative (V) with BzCl in pyridine. The oxidation of III with CrO₃ led to 4-methyl-8-chlorocarbostryl-5,6-quinone (VI). The proof of structure of these substances by synthesis of an authentic sample of III by an unequivocal method is described. II was reduced catalytically to 4-methyl-5,6-dihydroxycarbostryl (VII) but gave with aqueous Na₂S₂O₄ H₂O-soluble products. In contrast to 1,2-naphthoquinone, which gave a 3-nitro derivative with concentrated HNO₃, III is unaffected by this reagent. The preparation of 6-hydroxycarbostryl (VIII) by a new method and of 3-butyl-4-chloro-6-hydroxycarbostryl (IX) is described. VIII and IX were oxidized directly with CrO₃ to carbostryl-5,6-quinones. The question of the correct choice between 2 possible tautomeric structures for the carbostrylquinones is discussed, and the arguments based upon the bright red color, IR spectrum, and mode of the addition of HCl are presented, indicating that these substances are correctly formulated as carbostryl-5,6-quinones. Glacial AcOH (100 cc.), 150 cc. 48% HBr, and 30 g. 4-methyl-6-methoxycarbostryl refluxed 12 h., the solution diluted with 150 cc. H₂O, the resulting white needles of I.HBr stirred 2 h. with warming with 500 cc. 5% NH₄OH, and the free base recrystd. from glacial AcOH gave 23 g. (81%) I, beautiful white blades, m. 326-30° (recrystd. from glacial AcOH, HCONMe₂, and AcOH, m. 330-2°) (all m.ps. are corrected). The attempted oxidation of I with dry Pb(OAc)₄ in CHCl₃ or C₆H₆ gave only dark gums; I with dried Pb oxide in boiling Et₂O gave a faintly yellowish solution but only unchanged I was isolated. I (1.5 g.), powdered and shaken 0.5 h. with 10 cc. 1:1 warm Ac₂O-AcOH containing 8.0 g. Pb(OAc)₄, the orange solid filtered off, boiled with 10 cc. AcOH, filtered hot, and the resulting tiny orange-red crystals (0.75 g., 47%) recrystd. from hot AcOH gave II, bright red plates, decomposing at about 180° and above, without melting. I (20.0 g.) suspended in 200 cc. AcOH and 100 cc. H₂O, the mixture treated with 20 g. concentrated H₂SO₄, warmed, the resulting solution cooled to 40°, treated with vigorous shaking with 15.0 g. CrO₃ in 20 cc. H₂O, cooled rapidly after 2 min., and the resulting red gleaming plates (11.0 g., 51%) filtered, washed with H₂O and AcOH, dried, and recrystd. from AcOH gave II. II could not be recrystd. satisfactorily more than once; it dissolved readily in concentrated H₂SO₄ in the cold, but the deep red color of the solution soon faded to yellow; the yellow H₂SO₄ solution poured into H₂O did not give any precipitate. II also readily dissolved in cold, concentrated 70% HNO₃; this solution diluted after a few min. with an equal volume of ice water and cooled deposited nicely crystallized II. II suspended in EtOH shaken with aqueous Na₂S₂O₄ at room temperature gave a colorless solution from which nothing precipitated on further dilution with H₂O. II gave with concentrated NH₄OH a clear, green solution which

rapidly darkened in air and deposited after some time a purple, amorphous precipitate II with SnCl_2 or with Zn dust in AcOH gave a white insol. powder, m.

above 330° (decomposition). Powdered II (2.0 g.) in 100 cc. EtOH hydrogenated at $26^\circ/740$ mm. over 0.2 g. PtO_2 (prereduced) until 275 cc. H was absorbed, the filtrate diluted with 100 cc. H_2O , allowed to stand 24 h. at room temperature, the resulting gray solid deposit (1.0 g., 47%) boiled

10 min. with 5 cc. AcOH and 3 cc. Ac_2O , and the mixture diluted with H_2O until turbid and cooled yielded 0.87 g. (60%) VII, colorless blades, m. 283° (recrystd. 4 times from aqueous AcOH). VII shaken with concentrated NH_4OH gave a green solution which quickly darkened and then deposited a purple gelatinous solid. Dry HCl bubbled through 5.0 g. II suspended in 50 cc. CHCl_3 , the resulting yellowish powder shaken with dilute aqueous NaHCO_3 , the white solid (5.1 g., 89%), m. indistinctly with decomposition above 380° (insol. in all solvents), treated with 300 cc. boiling HCl and 700 boiling glacial AcOH, and the yellow solution cooled deposited 4.2 g. III. $\text{HCl} \cdot 2\text{H}_2\text{O}$, bright lemon-yellow needles, which, boiled with H_2O , gave III, white powder, m. indistinctly with decomposition above 380° . III was only very slightly soluble in all common solvents except pyridine, in which it turned black rapidly; it could not be methylated with Me_2SO_4 and alkali. III (2.0 g.) boiled with 20 cc. Ac_2O containing 2 drops H_2SO_4 and the resulting clear solution cooled deposited 2.11 g. (67%) IV, rosettes of white needles, m. $245\text{--}50^\circ$ (recrystd. several times from H_2O , m. $260\text{--}1^\circ$). III (1.0 g.) refluxed 15 min. with 3 g. BaCl and 25 cc. pyridine, the solution cooled slowly, and the crystalline solid recrystd. from AcOH yielded 0.9 g. (39%) V, m. $240\text{--}2^\circ$. III could not be oxidized with CrO_3 or FeCl_3 in aqueous AcOH. III (1.0 g.) suspended in 5 cc. EtOAc treated with 0.5 g. CrO_3 in 1 cc. H_2O , and the resulting red crystals (0.95 g., 96%) dissolved in cold concentrated HNO_3 and diluted with H_2O gave VI,

brilliant red crystals. 3,4-(MeO) $2\text{C}_6\text{H}_3\text{NO}_2$ (1.6 g.) suspended in 20 cc. concentrated HCl and shaken with 2.0 g. granulated Zn, the mixture heated 40 min.

on the steam bath with frequent shaking, the clear hot solution decanted, allowed to stand 4 h. at room temperature, the deposited crystalline SnCl_4 removed,

dissolved in 25 cc. hot 15% aqueous NaOH, the solution cooled and the precipitate

recrystd. from hot H_2O gave 0.5 g. (38%) 3,4-(MeO) $2\text{C}_6\text{H}_3\text{NH}_2$ (X), white plates, m. $86\text{--}7^\circ$; the mother liquors from the SnCl_4 refrigerated 12 h., the solid deposit dissolved in 25 cc. hot 10% aqueous NaOH, and the solution

cooled yielded 0.5 g. (31%) 2,4,5-Cl(MeO) $2\text{C}_6\text{H}_2\text{NH}_2$ (XI), white leaflets, m. $72\text{--}3^\circ$. The N-Ac derivative of X (21 g.) in 150 cc. CHCl_3 treated slowly at $5\text{--}10^\circ$ with 8.2 g. Cl, the walls of the container scratched, the deposited N-Ac derivative (XII) of XI. HCl dissolved in the min. amount of boiling H_2O , and the solution cooled gave 22.8 g. (91%) XII, m. $127\text{--}9^\circ$ (recrystd. from hot H_2O , m. $130\text{--}1^\circ$). XII (20 g.) refluxed 6 h. with 10% aqueous NaOH and the resulting product recrystd. from hot H_2O yielded 14 g. (86%) XI, m. $72\text{--}3^\circ$ (recrystd. several times from H_2O , m. $73\text{--}4^\circ$). X (25 g.) in 100 cc. ice water and 43 cc. concentrated HCl treated with 11.2 g. NaNO_2 in 40 cc. cold H_2O , the mixture stirred 20 min. at $0\text{--}5^\circ$, added slowly with stirring at 0° to 0.2 mol CuCl in 78 cc. concentrated HCl, warmed to room temperature, then heated

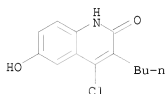
gradually to 60° , the dark solution extracted with three 75-cc. portions of C_6H_6 , and the extract distilled gave 17 g. (62%) 3,4-(MeO) $2\text{C}_6\text{H}_3\text{Cl}$ (XIII), colorless liquid, b $_{739}$ $237\text{--}40^\circ$. XIII (2.0 g.) nitrated by the method of Fetscher and Bogert (C.A. 33, 4252.5) yielded 2.3 g. (91%) 2,4,5-Cl(MeO) $2\text{C}_6\text{H}_2\text{NO}_2$ (XIV), pale yellow needles, m. 118° . XIV (1.0 g.) treated in 5 cc. 50% aqueous AcOH with 1.0 g. Zn dust, and the

resulting clear solution made strongly basic with 15% aqueous NaOH and chilled in ice deposited 0.3 g. (35%) XI, m. 72-3°. AcCH₂CO₂Et (100 cc.) treated at the b.p. with 25 g. pure XI in portions during 40 min., the solution refluxed gently 0.5 h., allowed to stand 24 h. at room temperature, and the white crystalline deposit (17 g., 47%) recrystd. from hot, 20% aqueous EtOH 3 times and then sublimed in vacuo gave pure 2,4,5-Cl(MeO)₂C₆H₂NHCOCH₂Ac (XV), white blades, m. 136-7°. XV (18 g.) in 75 cc. concentrated H₂SO₄ (d. 1.84) allowed to stand 4 days at room temperature, the clear yellow solution poured with stirring into 700 cc. ice and H₂O, the precipitate stirred 2 h. with hot 5% aqueous NaHCO₃, filtered, boiled with 100 cc. 95% EtOH, filtered again, and the filtrate cooled slowly gave 4 crops of crystals; the last crop (1.7 g.) consisted of a mixture of a small amount of white powder and a larger amount of colorless blades; a sample of the colorless blades m. 165-7°; the white powder m. indistinctly with decomposition above 380°; the following crops consisted entirely of the colorless blades, m. 165-7°; the combined crystalline material (6.1 g., 36%) recrystd. 3 times from the min. volume of hot MeOH gave pure di-Me ether (XVI) of III, m. 167-8°; the alc. mother liquor from the recrystn. of XVI evaporated to dryness in vacuo and the residue (1.3 g.) recrystd. twice from MeOH yielded an addnl. 0.7 g. slightly less pure XVI, m. 163-6°; the material insol. in hot EtOH boiled with 50 cc. glacial AcOH, the hot suspension filtered, and the filtrate diluted with H₂O gave a small amount of III, white powder, decomposed at about 380°. III boiled briefly with Ac₂O and AcOH yielded IV, white needles, m. 260-1°, and gave with BzCl V, white needles, m. 240-2° (from AcOH). 2-Chloro-6-methoxyquinoline (XVIII) (35 g.), refluxed 48 h. with 17 g. NaOMe in 300 cc. dry MeOH, and the mixture diluted with 300 cc. hot H₂O yielded 31 g. (91%) 2,6-dimethoxyquinoline (XVIII), m. 85-8° (recrystd. twice from aqueous MeOH, m. 88-90°); refluxing XVII only 6 h. with NaOMe resulted in an incomplete reaction. XVIII (25 g.) refluxed 48 h. with 6N aqueous HCl, and the resulting solid product stirred with hot 10% NH₄OH and recrystd. from AcOH yielded 20.4 g. (89%) 6-methoxycarbostyryl (XIX), m. 218-19° (recrystd. several times from AcOH, m. 218-19°). 6-Methoxyquinoline 1-oxide (17.3 g.) in 500 cc. H₂O treated at 70° with stirring dropwise during 2 h. with 56 g. BzCl, the hot mixture filtered, and the solid stirred with hot 5% aqueous NaOH and recrystd. from AcOH yielded 8.3 g. (17%) of a compound C₂₄H₁₉NO₅, small colorless prisms, m. 212-16° (recrystd. several times from AcOH and sublimed in vacuo, m. 227-9°), insol. in strong alkali (even hot), unaffected by refluxing 1 h. with 10% aqueous NaOH, and giving a yellow solution in warm 1:1 HCl. XIX (19 g.) refluxed 48 h. with 200 cc. 48% HBr, and the resulting white needles treated with H₂O gave 15.4 g. (88%) VIII, m. 328-32° (recrystd. 3 times from AcOH and sublimed in vacuo, white needles, m. 337-9°). VIII (1.61 g.) boiled with 20 cc. 20% aqueous H₂SO₄, and the mixture cooled to room temperature and treated dropwise with vigorous shaking with 1.33 g. CrO₃ in H₂O gave 0.90 g. (51%) carbostyryl-5,6-quinone (XX), red platelets. XX was destroyed by boiling with the higher-boiling solvents and was insol. in almost all of the common lower-boiling solvents except AcOH; boiling AcOH (150 cc.) dissolved approx. 0.5 g., and the solution allowed to stand several hrs. at room temperature deposited 0.3 g. XX, red platelets. XX suspended in EtOH, shaken a short time with aqueous Na₂S₂O₄, and the resulting colorless solution diluted with H₂O did not give any precipitate. XX gave in strong NH₄OH a green solution which rapidly darkened and deposited a purple, gelatinous solid. XX (0.4 g.) in 5 cc. CHCl₃ treated with dry HCl, and the resulting yellow

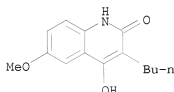
solid boiled with H₂O and then with 2 cc. glacial AcOH and filtered
yielded 0.4 g. (83%) 5,6-dihydroxy-8-chlorocarbostyryl (XXI), white
microcryst. powder, m. about 350° (decomposition), so little soluble in the
common solvents that it could not be recrystd., soluble in aqueous alkali and
hot pyridine, but the solns. rapidly turned black. XXI (0.2 g.) refluxed 10
min. with 1.0 cc. Ac₂O and 3.0 cc. AcOH, the mixture diluted cautiously with
4.0 cc. H₂O, and the solution cooled deposited 0.16 g. (60%) di-Ac derivative
of XXI, m. 240-2° (from aqueous AcOH). BuCH(CO₂Et)₂ (108 g.) and 62 g.
p-MeOC₆H₄NH₂ refluxed 8 h. with 1 l. Dowtherm A, the mixture diluted with 500
cc. hot heptane, cooled, and the resulting colorless plates washed on the
filter with heptane and recrystd. from EtOH yielded 112 g. (91%)
3-butyl-4-hydroxy-6-methoxycarbostyryl (XXII), white plates, m.
210-14° (recrystd. 3 times from EtOH, m. 216-18°). XXII (50
g.) refluxed 12 h. under N with 150 cc. POC₁₃, the excess POC₁₃ removed by
distillation, the residual hot sirup at once poured into 500 cc. crushed ice
and H₂O with vigorous stirring, the suspension made basic with dilute NH₄OH,
stirred 1 h., filtered, and the solid material (44 g., 77%), m.
69-73°, recrystd. 4 times from 50% EtOH gave pure
2,4-dichloro-3-butyl-6-methoxyquinoline (XXIII), gleaming platelets, m.
75-6°. XXIII (40 g.) refluxed 48 h. with 300 cc. 6N HCl, the solution
cooled, the resulting white needles of the HCl salt stirred 2 h. with 300
cc. hot 5% aqueous NaHCO₃, and the freed base recrystd. from CHCl₃ and EtOH
gave 29 g. (78%) 3-butyl-4-chloro-6-methoxycarbostyryl (XXIV), white
needles, m. 167-9°. XXIV (19 g.) refluxed 24 h. with 100 cc. 48%
HBr and 50 cc. AcOH, the solution cooled, the supernatant liquid decanted, the
residual lumpy solid refluxed again 24 h. with 150 cc. 48% HBr and 50 cc.
AcOH, the mixture diluted with 150 cc. H₂O, cooled, and the white crystalline
deposit stirred with 200 cc. hot dilute aqueous NaHCO₃ and recrystd. from EtOH
yielded 14 g. (80%) solid, m. 193-5°, resolidified on continued
slow heating, and remelted at 213-15°; a sample recrystd. from
EtOH, EtOAc-cyclohexane, and then again EtOH gave pure IX, fine needles,
m. 194-7°, resolidified, and remelted at 218-21°; the
higher-melting material recrystd. from EtOH gave the lower-melting form
which showed the same double m.p. as before. IX gave with Pb(OAc)₄ in
AcOH instantly a deep orange-red solution IX (5.0 g.) dissolved with warming
in 80 cc. glacial AcOH, the solution treated with 70 cc. H₂O and 40 cc.
concentrated H₂SO₄, cooled to below room temperature, treated dropwise with
stirring with 2.0 g. CrO₃ in 3.0 cc. H₂O, stirred 0.5 h., poured into an equal volume
of H₂O, allowed to stand 5 min. with occasional stirring, filtered, and
the red crystalline residue washed with H₂O, stirred with 300 cc. H₂O at
40°, filtered, and dried gave 4.4 g. (83%) 3-butyl-4-chloro-6-
hydroxycarbostyryl-5,6-quinone (XXV), red microcrystals decomposed without
melting at about 180°. Pure IX (5.0 g.) warmed with 50 cc. AcOH,
30 cc. H₂O, and 2.0 g. H₂SO₄, the solution cooled to 40°, treated with
vigorous shaking with 3.0 g. CrO₃ in 6 cc. H₂O, and the resulting red
platelets (2.7 g., 50%) recrystd. twice from AcOH, once from EtOH, and
again from AcOH, and sublimed very slowly in vacuo gave, after 7 days at
140°/1 mm., 0.18 g. slightly impure XXV, bright red crystals. XXV
treated with SnCl₂ or Zn dust in AcOH gave a white, high-melting powder,
forming with aqueous alc. Na₂S₂O₄ colorless H₂O-soluble products and with
strong NH₄OH a green solution which rapidly darkened and then deposited a purple
solid; it was not appreciably soluble in cold EtOH, but dissolved rapidly in
EtOH containing isoprene. XXV (2.0 g.) in 20 cc. CHCl₃ treated with dry HCl
and the resulting yellow crystalline solid boiled with H₂O yielded 2.0 g. (88%)
3-butyl-4,8-dichloro-5,6-dihydroxycarbostyryl, insol. in all suitable
solvents, soluble in aqueous alkali and hot pyridine with blackening; with hot
AcOH-Ac₂O it gave a di-Ac derivative, fine white needles, m. 237-9°

(from AcOH).

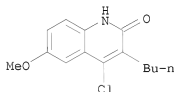
IT 30722-01-1P, Carbostryril, 3-butyl-4-chloro-6-hydroxy-
412335-80-9P, Carbostryril, 3-butyl-4-hydroxy-6-methoxy-
854834-56-3P, Carbostryril, 3-butyl-4-chloro-6-methoxy-
RL: PREP (Preparation)
(preparation of)
RN 30722-01-1 CAPLUS
CN Carbostryril, 3-butyl-4-chloro-6-hydroxy- (8CI) (CA INDEX NAME)



RN 412335-80-9 CAPLUS
CN 2(1H)-Quinolinone, 3-butyl-4-hydroxy-6-methoxy- (CA INDEX NAME)



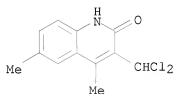
RN 854834-56-3 CAPLUS
CN 2(1H)-Quinolinone, 3-butyl-4-chloro-6-methoxy- (CA INDEX NAME)



L28 ANSWER 223 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1954:35986 CAPLUS
DOCUMENT NUMBER: 48:35986
ORIGINAL REFERENCE NO.: 48:6443h-i,6444a-b
TITLE: Quinoline derivatives
AUTHOR(S): Sastry, K. N. S.; Bagchi, P.
CORPORATE SOURCE: Indian Assoc. Cultivation Sci., Jadavpur, Calcutta
SOURCE: Science and Culture (1953), 18, 543-5
CODEN: SCINAL; ISSN: 0036-8156
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
AB Several quinoline derivs. were prepared p-H2NC6H4CH2CN refluxed in equimolar proportions with AcCH2CO2Et 3 hrs. at 180° gave a white anilide (I), m. 222°; semicarbazone, m. 252°. Attempted cyclization of I in paraffin at 250° was unsuccessful. However cyclization occurred in concentrated H2SO4 in 15 min. at 95°, giving

2-hydroxy-4-methyl-6-(cyanomethyl)quinoline, m. 258° (from alc.). The 4-Me group reacted with aldehydes, giving styryl and p-methoxystyryl derivs., m. 126° and 142°, resp. p-Toluidine and AcCH2CO2Et heated 3 hrs. at 170° gave an anilide, m. 185° (from alc.); semicarbazone, m. 218°. The same cyclization technique gave 2-hydroxy-4,6-dimethylquinoline (II), m. 224° (from alc.). 4-Styryl derivative of II m. 262° (from alc.). With benzoin, II gave 2-(2-hydroxy-6-methyl-4-quinolylmethylene)-1,2-diphenylethyl alc. m. 142° (from alc.). 2-Hydroxy-3-dichloromethyl-4,6-dimethylquinoline, m. 258° (from alc.), is also obtained from II. 4,2-Me(O2N)C6H3NH2 condensed with AcCH2CO2Et gave an anilide (III), m. 139° (from alc.), cyclized in concentrated H2SO4 gave 2-hydroxy-4,6-dimethyl-8-nitroquinoline, m. 174°. p-O2NC6H4NH2, m-O2NC6H4NH2, and o-H2NC6H4OH anilides m. 184°, 158°, and 128°, resp., which could not be cyclized. p-H2NC6H4CH2CO2H and 3,5,4-Br2MeC6H2NH2 did not condense with AcCH2CO2Et.

IT 855733-85-6P, Carbostyryl, 3-(dichloromethyl)-4,6-dimethyl-
RL: PREP (Preparation)
(preparation of)
RN 855733-85-6 CAPLUS
CN 2(1H)-Quinolinone, 3-(dichloromethyl)-4,6-dimethyl- (CA INDEX NAME)

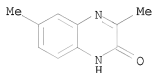


L28 ANSWER 224 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1954:18368 CAPLUS
DOCUMENT NUMBER: 48:18368
ORIGINAL REFERENCE NO.: 48:3370c-f
TITLE: Quinoxaline studies. IV. The preparation of
dl-2,6-dimethyl-1,2,3,4-tetrahydroquinoxaline and
dl-2,7-dimethyl-1,2,3,4-tetrahydroquinoxaline
Munk, Morton; Schultz, Harry P.
AUTHOR(S): Univ. of Miami, Coral Gables, FL
CORPORATE SOURCE: Journal of the American Chemical Society (1952), 74,
SOURCE: 3433-4
CODEN: JACSAT; ISSN: 0002-7863
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable

AB cf. C.A. 46, 11210h. 2-Hydroxy-3-methylquinoxaline (2.0 g.) in 90 cc.
POCl3 refluxed 30 min., the excess POCl3 distilled off, the residue poured
into ice water, and the aqueous solution extracted with Et2O yielded the 2-Cl
analog
(I), m. 90-2°. I (2.0 g.) and 0.5 g. anhydrous NaOAc in 25 cc. AcOH
reduced 4 hrs. over 0.2 g. 5% Pd-C at 60° in 2 atmospheric H, the mixture
filtered, evaporated to 10 cc. on the steam bath, treated with excess 50%
NaOH, triturated with Et2O, and the Et2O evaporated yielded 1.1 g.
dl-2-methyl-1,2,3,4-tetrahydroquinoxaline, m. 70-1°. MeCHBrCO2H
(7.6 g.) and 15 g. 3,4-H2N(O2N)C6H3Me refluxed 96 hrs. on a steam bath,
the mixture cooled, extracted with 15% NH4OH, the alkaline solution treated
with C, and
the filtrate adjusted to pH 4 yielded 4.4 g. N-(6-nitro-m-tolyl)-DL-
alanine (II), m. 127-8°. II (2.5 g.) in 40 cc. EtOH reduced 4 hrs.
over 5% Pd-C at 30° in 2 atmospheric H, the EtOH evaporated on the steam bath,

the residue in 25 cc. 8% H₂O₂ and 25 cc. 8% NaOH heated 2 hrs. on the steam bath, and the solution adjusted to pH 4 with AcOH yielded 1.6 g. 2-hydroxy-3,6-dimethylquinoxaline (III), m. 248-9°. III yielded 66% 2-Cl compound m. 76-7°; which on reduction gave 72% dl-2,7-dimethyl-1,2,3,4-tetrahydroquinoxaline (IV), m. 118-18.5°. 2-Hydroxy-3,7-dimethylquinoxaline gave 72% 2-Cl compound, m. 86-7; which on reduction gave 60% dl-2,6-dimethyl-1,2,3,4-tetrahydroquinazoline (V), m. 115-15.5°. 3,4-(H₂N)2C₆H₃Me with ClCH₂CO₂Me yielded a mixture, b. 265-70°, which was reduced over 5% Pd-C at 60° in 2 atmospheric H₂ 4 hrs. to 48% of a 1:1 mixture of IV and V, m. 88-9°.

IT 28082-84-0P, 2-Quinoxalinol, 3,6-dimethyl-
 RL: PREP (Preparation)
 (preparation of)
 RN 28082-84-0 CAPLUS
 CN 2(1H)-Quinoxalinone, 3,6-dimethyl- (CA INDEX NAME)



L28 ANSWER 225 OF 231 CAPLUS COPYRIGHT 2008 ACS ON STN

ACCESSION NUMBER: 1951:55714 CAPLUS

DOCUMENT NUMBER: 45:55714

ORIGINAL REFERENCE NO.: 45:9546b-d

TITLE: Quinoxaline studies. II. The preparation of
 2-hydroxy-3,6-dimethylquinoxaline and
 2-hydroxy-3,7-dimethylquinoxaline

AUTHOR(S): Marks, Burton; Schultz, Harry P.

CORPORATE SOURCE: Univ. of Miami, Coral Gables, FL

SOURCE: Journal of the American Chemical Society (1951), 73,
 1368-70

CODEN: JACSAT; ISSN: 0002-7863

DOCUMENT TYPE: Journal

LANGUAGE: Unavailable

AB cf. C.A. 43, 7487i. 4,3-O₂N(AcNH)C₆H₃Me (19.4 g.) and 1 g. Pd-on-C for 1 hr. at 30° and 4 atmospheric H₂, the solution filtered, 120 cc. water and 9.23 g. MeCHBrCO₂Et (I) added, and the mixture heated on the steam bath 5 hrs., poured into 500 cc. water, and allowed to stand 12 hrs. at 5° yielded 8.42 g. N-(2-acetamido-5-methylphenyl)-DL-alanine Et ester (II), m. 126.8-7.1° (from aqueous EtOH). II (8.42 g.), 50 cc. water, and 50 cc. concentrated H₂SO₄ stirred on the steam bath 4 hrs., cooled, neutralized, the precipitate filtered, heated on the steam bath 2 hrs. in 15 cc. 8% NaOH containing 15 cc. 3% H₂O₂, and the solution cooled and brought to pH 4 yielded 0.9 g. 2-hydroxy-3,6-dimethylquinoxaline, white crystals from aqueous EtOH, m. 254-5°. 3,4-O₂N(H₂N)C₆H₃CH₃ (7.6 g.) and 3.83 g. I 8 hrs. on the steam bath, the cooled melt extracted with 15% NH₄OH and 10% HCl added yielded 1.8 g. N-(2-nitro-4-methylphenyl)-DL-alanine (III), m. 149.5-50°. III (2.65 g.) in 40 cc. EtOH containing Pd-on-C at 30° and 2 atmospheric H₂, filtered, and the residue in 35 cc. 10% NaOH oxidized with a stream of air at 70-80° for 18 hrs. yielded 0.9 g. 2-hydroxy-3,7-dimethylquinoxaline, m. 243-4° (from aqueous EtOH).

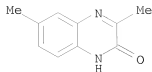
IT 28082-84-0P, 2-Quinoxalinol, 3,6-dimethyl-

RL: PREP (Preparation)

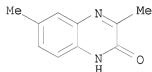
(preparation of)

RN 28082-84-0 CAPLUS

CN 2(1H)-Quinoxalinone, 3,6-dimethyl- (CA INDEX NAME)



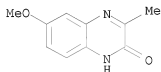
L28 ANSWER 226 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1951:55713 CAPLUS
 DOCUMENT NUMBER: 45:55713
 ORIGINAL REFERENCE NO.: 45:95451,9546a-b
 TITLE: Synthesis of vitamin B1 and its related compounds IV
 AUTHOR(S): Matsukawa, Taizo; Iwatsu, Takeo; Yurugi, Shojiro
 CORPORATE SOURCE: Takeda Pharm. Inds., Ltd., Osaka
 SOURCE: Yakugaku Zasshi (1948), 68, 285-7
 CODEN: YKKZAJ; ISSN: 0031-6903
 DOCUMENT TYPE: Journal
 LANGUAGE: Unavailable
 AB cf. C.A. 44, 4006g; 45, 8537h. The reduction with Zn and AcOH of (AcOCH2CH2CHAcS)2, obtained from Na2S2 with AcOCH2CH2CHAcCl (I), gave AcOCH2CH2CHAcSH (II). The purity of II as determined by iodometry was about 80%, as was the substance mentioned in Report I (C.A. 45, 4723i). NaSAc with I gave AcOCH2CH2CHAcSAc (III), b2 120-2.5°, also obtained from II with Ac2O in C5H5N. III and 2-methyl-4-amino-5-(formamidomethyl)pyrimidine-HCl (IV) gave vitamin B1 although the yield was poor as compared to the reaction with II as reported in report I (loc. cit.). KSC02Et with I gave AcOCH2CH2CHAcSCO2Et (V), b1 133-8°. Condensation of V and IV gave vitamin B1, but the yield was still less than when III was used. NaSMe with I gave AcOCH2CH2CHAcSMe (VI), b2.5 100-4°. VI did not react at all with IV.
 IT 28082-84-0P, 2-Quinoxalinol, 3,6-dimethyl-
 RL: PREP (Preparation)
 (preparation of)
 RN 28082-84-0 CAPLUS
 CN 2(1H)-Quinoxalinone, 3,6-dimethyl- (CA INDEX NAME)



L28 ANSWER 227 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1949:41440 CAPLUS
 DOCUMENT NUMBER: 43:41440
 ORIGINAL REFERENCE NO.: 43:7487i,7488a-c
 TITLE: Quinoxaline studies. I. The preparation of 2-hydroxy-3-methyl-6-methoxyquinoxaline and 2-hydroxy-3-methyl-7-methoxyquinoxaline
 AUTHOR(S): Yolles, Seymour; Schultz, Harry P.
 SOURCE: Journal of the American Chemical Society (1949), 71, 2375-7
 CODEN: JACSAT; ISSN: 0002-7863
 DOCUMENT TYPE: Journal
 LANGUAGE: Unavailable
 AB 3, 4-O2N(H2N)C6H3OMe (16.8 g.) and 7.65 g. MeCHBrCO2H, heated 24 hrs. at 100-5°, the cooled melt extracted alternately with three 5-ml. portions

of 1:1 NH₄OH and three 15-ml. portions of H₂O, acidified at 60° with AcOH, and precipitated with 10% HCl, give 46% N-(2-nitro-4-methoxyphenyl)-DL- α -alanine (I), orange, m. 135-5.5°. I (1.1 g.) in 20 ml. EtOH, reduced over W-2 Raney Ni at 60° and the residue in 10 ml. 5% NaOH oxidized (4 hrs.) with air at 70-80°, give 0.4 g. 2-hydroxy-3-methyl-7-methoxyquinoxaline (II), m. 240-40.5°; reduction with Zn and AcOH, followed by air oxidation, also gives II. 3, 4-H₂N(O₂N)C₆H₃OMe and MeCHBrCO₂H give 52% N-(2-nitro-5-methoxyphenyl)-DL- α -alanine, m. 149-50°, 2.4 g. of which, on reduction and air oxidation, yields 0.55 g. 2-hydroxy-3-methyl-6-methoxyquinoxaline (III), m. 245-5.2°. 3, 4-H₂N(AcNH)C₆H₃OMe (10.8 g.) and 5.43 g. MeCHBrCO₂Et in 19.2 ml. EtOH and 15 cc. H₂O, refluxed 4 hrs., give 68% N-(2-acetamido-4-methoxyphenyl)-DL- α -alanine (IV), m. 119-20°; 2.8 g. IV and 10 ml. 10% HCl, boiled 2 hrs. and the neutralized solution oxidized 12 hrs. with air at 70-80°, give 13% III. A repetition of the work of Hinsberg [Ann. 292, 249(1896)] [reaction of 3, 4-(H₂N)C₆H₃OMe with AcCO₂H] gives a mixture of II and III, m. 192-3°; repeated crystallization from EtOH gives a small quantity of III. The m.-p. curve of II and III (an equimol. mixture shows a eutectic at 193°) and their ultraviolet-absorption spectra are given.

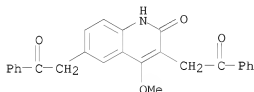
IT 108833-49-4P, 2-Quinoxalinol, 6-methoxy-3-methyl-
 RL: PREP (Preparation)
 (preparation of)
 RN 108833-49-4 CAPLUS
 CN 2(1H)-Quinoxalinone, 6-methoxy-3-methyl- (CA INDEX NAME)



L28 ANSWER 228 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1949:700 CAPLUS
 DOCUMENT NUMBER: 43:700
 ORIGINAL REFERENCE NO.: 43:181f-i,182a-d
 TITLE: Formation of quinones by oxidative demethylation and the effect of methylating agents on them
 AUTHOR(S): Rao, G. S. Krishna; Rao, K. Visweswara; Seshadri, T. R.
 SOURCE: Proceedings - Indian Academy of Sciences, Section A (1948), 27A, 245-57
 CODEN: PISAA7; ISSN: 0370-0089
 DOCUMENT TYPE: Journal
 LANGUAGE: Unavailable
 AB cf. C.A. 42, 6812d. Oxidation of p-dimethoxy- or p-hydroxymethoxybenzene compds. by HNO₃ gives p-quinones readily. If addnl. OMe groups are present, demethylation of a 3rd OMe group may occur, producing a hydroxyquinone. Calycopterin di-Me ether and O4'-methylcalycopterin, like other flavones, are converted to 5,8-quinones without further change. On the other hand, 1,2,3,5-C₆H₂(OMe)₄ gives a hydroxyquinone. Certain substituted acetophenones and chalcones are simultaneously oxidized to quinones and demethylated in the position ortho to the keto group, provided that the substituents are in positions 1, 2, 3, 5 relative to each other. Methylation of hydroxyquinones gives in some cases a methoxyquinone and in others a methoxyhydroquinone di-Me ether. Calycopterin di-Me ether (0.5 g.), treated with HNO₃ (10 ml., d. 1.25) with vigorous stirring and allowed to stand 15 min. at 15-20°, gave

0.3 g. 3,4,6,7-tetramethoxy-5,8-flavoquinone (I), orange-red needles from C₆H₆, m. 194-5°. I was prepared also by oxidizing 04'-methylcalycoperin in the same way. I (0.3 g.) in 2 ml. HOAc, stirred 1 min. with 0.5 g. Na₂SO₃, gave on dilution 5,8-dihydroxy-3,4',6,7-tetramethoxyflavone, m. 210-12°. 1,2,3,5-C₆H₂(OMe)₄ (5 g.) in 20 ml. EtOH, treated with HNO₃ (20 ml., d. 1.25) and cooled below 50° 15 min., gave on dilution 2-hydroxy-6-methoxyquinone, pale yellow crystals from CHCl₃, m. 240-5° (decomposition). 2,3,4,6-HO(MeO)3C₆HAc (1 g.) in 10 ml. anhydrous ether treated with 1 ml. fuming HNO₃, let stand overnight, diluted, and extracted with CHCl₃ gave 0.35 g. 2-hydroxy-4-methoxy-3,6-quinacetophenone (II), orange-red plates from C₆H₆, m. 158-60°. II was prepared also from 2,4,5,6-HO(MeO)3C₆HAc (70% yield) and from 2,3,4,6-(MeO)4C₆HAc, using a similar procedure. Passing SO₂ into a suspension of II in H₂O gave the hydroquinone, 2,3,6-trihydroxy-4-methoxyacetophenone, crystals from C₆H₆, m. 170-1°. 2-Hydroxy-3,4,6-trimethoxychalcone (III) (0.5 g.) oxidized in 5 ml. HOAc with 1 ml. concentrated HNO₃ yielded 2-hydroxy-4-methoxy-3,6-quinochalcone (IV), orange-red plates from CHCl₃, m. 186-7°. III (2 g.) refluxed 12 hrs. in 25 ml. acetone with 2 ml. Me₂SO₄ and 10 g. K₂CO₃ gave an oil (V), presumably the tetramethoxychalcone. V (1 g.), oxidized in 3 ml. HOAc with 1 ml. concentrated HNO₃ and the product washed with ether and crystallized from CHCl₃, yielded IV. 2-Hydroxy- α -naphthoquinone (1 g.) in 50 ml. anhydrous acetone refluxed 3 hrs. with 1 ml. Me₂SO₄ and 5 g. K₂CO₃ yielded 2-methoxy- α -naphthoquinone (VI), insol. in aqueous NaHCO₃ but demethylated by aqueous NaOH. Benzoquinone with Me₂SO₄ gave 30% p-C₆H₄(OMe)₂. Benzoquinone with BzCl and aqueous NaOH gave 50% p-C₆H₄(OBz)₂. Gossypetone tetra-Me ether (VII) was converted by aqueous NaOH to 5,8-dihydroxy-3,3',4',7-tetramethoxyflavone (50% yield). Gossypetin hexa-Me ether was prepared by methylating gossypetone or gossypetone tetra-Me ether.

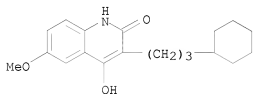
IT 857759-68-3P, 3,6-Quinoacetophenone, 2-hydroxy-4-methoxy-
 RL: PREP (Preparation)
 (preparation of)
 RN 857759-68-3 CAPLUS
 CN 2(1H)-Quinolinone, 4-methoxy-3,6-bis(2-oxo-2-phenylethyl)- (CA INDEX NAME)



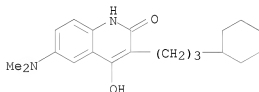
L28 ANSWER 229 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1946:29340 CAPLUS
 DOCUMENT NUMBER: 40:29340
 ORIGINAL REFERENCE NO.: 40:5745b-d
 TITLE: Some 3-alkyl-2,4-quinolinediols
 AUTHOR(S): Baker, Robert H.; Lappin, Gerald R.; Riegel, Byron
 CORPORATE SOURCE: Northwestern Univ., Evanston, IL
 SOURCE: Journal of the American Chemical Society (1946), 68, 1284-5
 CODEN: JACSAT; ISSN: 0002-7863
 DOCUMENT TYPE: Journal
 LANGUAGE: Unavailable
 OTHER SOURCE(S): CASREACT 40:29340

AB Di-Et cyclohexylmalonate (0.11 mol) and 0.1 mol PhNH₂ in 50 mL. Ph₂O, heated under a reflux for 1 h., give 95-8% of 3-cyclohexyl-2,4-quinolinediol, 300-5°; 6-MeO derivative, m. 233-4°; 6-Me₂N derivative, starts to decompose at 234-5°. Di-Et (3-cyclohexylpropyl)malonate and 0.1 mol PhNH₂ in 25 mL. Ph₂O, heated under a reflux for 30 min., give 3-(3-cyclohexylpropyl)-2,4-quinolinediol, m. 188-9°; 6-MeO derivative, m. 197-8°; 6-Me₂N derivative, starts to decompose at 250-5°. These esters did not react with o-O₂NC₆H₄NH₂. Et₂N(CH₂)₃CH(CO₂Et)₂ and PhNH₂, heated in Ph₂O, Am₂O, or mineral oil at 250°, give only a small quantity of (3-diethylaminopropyl)malonanilide, m. 163-4°. CH₂:CHCH₂CH(CO₂Et)₂ does not react with PhN₂.

IT 855765-24-1P, 2,4-Quinolinediol, 3-(3-cyclohexylpropyl)-6-methoxy-
855765-27-4P, 2,4-Quinolinediol, 3-(3-cyclohexylpropyl)-6-dimethylamino-
RL: PREP (Preparation)
(preparation of)
RN 855765-24-1 CAPLUS
CN 2(1H)-Quinolone, 3-(3-cyclohexylpropyl)-4-hydroxy-6-methoxy- (CA INDEX NAME)



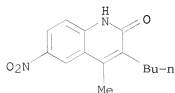
RN 855765-27-4 CAPLUS
CN 2(1H)-Quinolone, 3-(3-cyclohexylpropyl)-6-(dimethylamino)-4-hydroxy- (CA INDEX NAME)



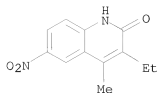
L28 ANSWER 230 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1946:24010 CAPLUS
DOCUMENT NUMBER: 40:24010
ORIGINAL REFERENCE NO.: 40:4726f-i,4727a-c
TITLE: Synthesis of 3-alkyl-4-methylquinolines
AUTHOR(S): Searles, A. Langley; Lindwall, H. G.
CORPORATE SOURCE: New York Univ.
SOURCE: Journal of the American Chemical Society (1946), 68, 988-90
CODEN: JACSAT; ISSN: 0002-7863
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
OTHER SOURCE(S): CASREACT 40:24010
AB The method of Knorr (Ann. 245, 358(1888)), in which PhNH₂ and AcCHMeCO₂Et were heated in a sealed tube, yields mainly CO(NHPh)₂ and butanone; various modifications of the exptl. conditions did not effect significant

improvement. The fact that PhNHCOCH₂Ac (I) can exist in an enol form suggested the preparation of the Na derivative and its alkylation. I (88.6 g.) and 11.5 g. Na in 500 mL. dry C₆H₆, refluxed 15 h., the C₆H₆ removed on the steam bath, the residue dissolved in 600 mL. com. absolute EtOH containing 82.2 g. BuBr, and refluxed 0.5 h., give 62.4% of α-buty-lacetoacetanilide (II), m. 88-9°. II was prepared in 13.7% yield by refluxing 4.7 g. PhNH₂, 9.5 g. AcCHBuCO₂Et, and a few drops of C₅H₅N in 60 mL. anhydrous xylene for 5 h., and allowing the solution to stand at room temperature for 6 days.

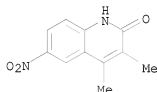
α-Pr derivative (III) of I, m. 85-7.5°, 52.5%; α-Et derivative (IV) of I, m. 106-8°, 66.6%; α-Me derivative (V) of I, m. 137-9°, 66.5%. The 2-Me derivative of I (19.1 g.) and 2.3 g. Na in 250 mL. C₆H₆, refluxed 2.5 h., the C₆H₆ removed, and the residue refluxed 0.5 h. with 16.4 g. EtI in 150 mL. com. absolute EtOH, give 34.2% of 2-methyl-α-ethylacetoacetanilide, straw, b₃ 178.5-81°. The α-benzyl derivative of I m. 111.5-13°, 75%; this is not cyclized by H₂SO₄. II (21.6 g.), added to 25 mL. precooled 98% H₂SO₄, the mixture allowed to stand 20 h. at room temperature, warmed a few min. on the steam bath, and poured into a mixture of Na₂CO₃ and crushed ice, gives 89.4% of 2-hydroxy-3-butyl-4-methylquinoline (VI), m. 170-1°; III gives 76% of the 3-Pr homolog of VI, m. 175.5-7°; IV gives 82% of the 3-Et homolog, m. 228.5-9°; V gives a quant. yield of the 3-Me homolog, m. 269-71°. VI (2.15 g.) and 6 mL. POCl₃, heated at 110° for 15 min., give 68% of 2-chloro-3-butyl-4-methylquinoline (VII), pale yellow, b₅ 183-3.5°, n_D20 1.5957; 3-Pr homolog, m. 79-80°, 96%; 3-Et homolog, m. 83.5-5.5°, 88%. VII (4.2 g.) in 50 mL. 90% AcOH at 40°, treated during 8 h. with 4.5 g. Zn, gives 50% of 3-butyl-4-methylquinoline, b₁ 142-3.5°, n_D20 1.5803 (picrate, bright yellow, m. 162.5-4°); 3-Et homolog, b₂₉ 177-80°, n_D20 1.6033, 72.4% (picrate, m. 209-10°). VI (2.15 g.) in 5 mL. 98% H₂SO₄ at 0°, treated with 0.8 mL. HNO₃ (d. 1.42) and 1 mL. 98% H₂SO₄ and the mixture allowed to stand at room temperature for 0.5 h., gives a quant. yield of 2-hydroxy-3-butyl-4-methyl-6-nitroquinoline (VIII), cream, m. 259-60°; 3-Et homolog, cream, m. 308.5-9.5°, 94%; 3-Me homolog, yellow, m. 368-9° (decomposition), 93%. VIII (0.8 g.) and 2 mL. POCl₃, heated at 120° for 10 min., give 82% of 2-chloro-3-butyl-4-methyl-6-nitroquinoline, pale rose, m. 124-4.5°; 3-Me homolog, pale yellow, m. 191-4°, quant. yield. IT 855177-57-0P, Carbostyryl, 3-butyl-4-methyl-6-nitro- 860404-56-4P, Carbostyryl, 3-ethyl-4-methyl-6-nitro- 860404-68-8P, Carbostyryl, 3,4-dimethyl-6-nitro- RL: PREP (Preparation) (preparation of) RN 855177-57-0 CAPLUS CN 2(1H)-Quinolinone, 3-butyl-4-methyl-6-nitro- (CA INDEX NAME)



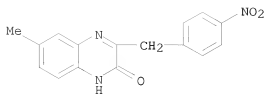
RN 860404-56-4 CAPLUS
CN 2(1H)-Quinolinone, 3-ethyl-4-methyl-6-nitro- (CA INDEX NAME)



RN 860404-68-8 CAPLUS
CN 2(1H)-Quinolinone, 3,4-dimethyl-6-nitro- (CA INDEX NAME)



L28 ANSWER 231 OF 231 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1924:9515 CAPLUS
DOCUMENT NUMBER: 18:9515
ORIGINAL REFERENCE NO.: 18:1277a-d
TITLE: Condensation of ethyl oxalate with nitrotoluenes. II.
Condensation of ethyl oxalate with p-nitrotoluene
AUTHOR(S): Wislicenus, W.; Schultz, Fritz
SOURCE: Justus Liebigs Annalen der Chemie (1924), 436, 55-62
CODEN: JLCABF; ISSN: 0075-4617
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
OTHER SOURCE(S): CASREACT 18:9515
AB Et p-nitrophenyl-pyroracemate (IV), yellow, m. 106° (in 50-60%
yield), through the red K salt; by-products are dinitrostilbene and
dinitrodibenzyl. IV gives a deep red solution in alkalies, and a brownish
green to nearly black color with FeCl3. Saponification gives the free acid
(V),
yellowish green, m. 150°, soluble in Na2CO3 with a red color.
Reduction of IV by Sn and concentrated HCl gives a 78.5% yield of
p-aminophenyllactic acid, m. 188°. IV phenylhydrazone, yellowish
green, m. 113° and gives a deep red-violet color with concentrated H2SO4
and FeCl3; in hot 15% EtOH-H2SO4 there is formed Et 3-[p-
nitrophenyl]indole-2-carboxylate, yellow, m. 216°. IV anil,
orange-red, m. 76°. o-Toluidine derivative, orange-yellow, m.
85°; p-derivative, scarlet-red, m. 97°; α-naphthylamine
derivative, orange-red, m. 113°; β-derivative, scarlet-red, m.
137°; anthranilic acid derivative, yellow, m. 194°. With
1,3,4-MeC6H3(NH2)2 and IV there is formed 6-hydroxy-7-[p-nitrobenzyl]-2-
methylquinoxaline, yellow, m. 270°, soluble in EtOH-KOH with a deep
violet color. With o-H2NC6H4OH there results 6-keto-7-p-
nitrobenzylbenzoxazine, dark red, m. 192°. Me ester of V, yellow,
m. 149°. Oxime, pale yellow, m. 172-3°. Phenylhydrazone,
greenish yellow, m. 136-45°.
IT 861564-11-6P, 2(1)-Quinoxalone, 6-methyl-3-[(p-nitrobenzyl)-
RL: PREP (Preparation)
(preparation of)
RN 861564-11-6 CAPLUS
CN 2(1H)-Quinoxalinone, 6-methyl-3-[(4-nitrophenyl)methyl]- (CA INDEX NAME)



=> LOG HOLD

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION

FULL ESTIMATED COST

1441.56	2796.08
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DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION

CA SUBSCRIBER PRICE

-190.40	-192.80
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SESSION WILL BE HELD FOR 120 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 11:00:06 ON 08 MAY 2008